# Oil, Paint and Drug Reporter

*The Chemical Market Authority Since 1871*

Volume 158 No. 23 — 30 Church Street, New York 7, N. Y. — December 4, 1950



RECEIVED DEC 4 1950 THE CHEMISTS' CLUB LIBRARY



**Amyl Mercaptan**
**Diamyl Sulfide**
**tert-Dodecyl Mercaptan**

*For additional information, write to Dept. O:*

**SHARPLES CHEMICALS INC.** PHILADELPHIA 9 CHICAGO 4 NEW YORK 1

SHARPLES TRADE MARK CHEMICALS



# METHANOL

ALL GRADES

TANK CARS TANK WAGONS DRUMS

**WM. S. GRAY & CO.**
342 MADISON AVENUE, NEW YORK 17, N. Y.
Cable Address: GRAYLIME Phone MUrray Hill 2-3100



Baker CHEMICAL

# IODIDES

**Potassium, Sodium, Ammonium**

**J. T. Baker Chemical Co.** Phillipsburg, N. J.
NEW YORK · PHILADELPHIA · LOS ANGELES · BOSTON · CHICAGO



# DIGLYCOLIC ACID

HOOC-$CH_2$O-$CH_2$COOH

**PROPERTIES** . . . . . • White crystalline solid, M. P. (pure acid) 148°C. (289.4°F.)

Ionization constants, 25°C.:
$K_1 = 1.1 \times 10^{-3}$
$K_2 = 3.7 \times 10^{-5}$

**SUGGESTED USES** . . . . . • Partial replacement for phthalic anhydride in alkyd resins

Intermediate for low-pressure laminating resins

Automotive cleaning compounds

Manufacture of resins for printing inks

Masking agent for chrome liquors in leather tanning

Manufacture of resins for textile finishing

Acid dye baths for textiles

Manufacture of esters—which are efficient plasticizers having good compatibility with polyvinyl chloride, cellulose nitrate, ethyl cellulose, cellulose acetate-butyrate, and a variety of other resins

**PACKAGING**

50-lb. multiwall paper bags

***For data and technical advice, write:***

DU PONT REG. U. S. PAT. OFF.

**Polychemicals DEPARTMENT**
WILMINGTON 98, DELAWARE

BETTER THINGS FOR BETTER LIVING ...THROUGH CHEMISTRY

DISTRICT OFFICES: 818 Olive St., St. Louis 1, Mo. • 7 S. Dearborn Street, Chicago 3, Ill. • 350 Fifth Avenue, New York 1, N. Y. 845 E. 60th Street, Los Angeles 1, Calif.



*Available again—*

# STANNOCHLOR

(Anhydrous Stannous Chloride)

Possesses important advantages over 1in Crystals in stability, concentration and purity . . . . . .

A Metal & Thermit Product

**PRIOR CHEMICAL CORPORATION · NEW YORK**
420 Lexington Avenue
CABLE: PRIORCHEM NEW YORK
PHONE: LExington 2-9811



# BORAX AND BORIC ACID

*Technical and U.S.P. Grades*
GRANULAR • POWDERED
CRYSTAL • IMPALPABLE

*Special Quality Grade*
GRANULAR • POWDERED

**Anhydrous Borax**
**Anhydrous Rasorite**
**Rasorite Special Concentrates**
**Fertilizer Borates**
**Ammonium Biborate**
**Ammonium Pentaborate**
**Sodium Metaborate**
**Potassium Pentaborate**
**Borax Glass**
**Anhydrous Boric Acid**

*Herbicides*
BORASCU • CONCENTRATED BORASCU • POLYBOR • POLYBOR CHLORATE

**PACIFIC COAST BORAX CO.**
Division of Borax Consolidated, Limited
LOS ANGELES NEW YORK CHICAGO CLEVELAND

MANUFACTURERS OF THE FAMOUS "20 MULE TEAM" PACKAGE PRODUCTS

# For Extremely High Solubility and Sequestering Power

Westvaco CHEMICALS
TRADE MARK

## POTASSIUM PHOSPHATES

*America's Only Integrated Production*

$KH_2PO_4$ **MONOPOTASSIUM PHOSPHATE**

For the manufacture of penicillin; ingredient in seedbed fertilizers; yeast food.

$K_2HPO_4$ **DIPOTASSIUM PHOSPHATE**

For the manufacture of penicillin and other pharmaceuticals; textile anti-static agent; water softener; ingredient in seedbed fertilizers and nutrient solutions; buffer in glycol antifreeze; humectant; correcting salt balance in evaporated milk.

$K_4P_2O_7$ **TETRAPOTASSIUM PYROPHOSPHATE**

For the manufacture of "cold rubber"; builder for potash soaps; clarifying agent for liquid soaps and shampoos; in electroplating solutions and boiler-water softeners; oil-well drilling muds; textile wet processing; purification of china clays.

$K_3PO_4$ **TRIPOTASSIUM PHOSPHATE**

As a soap builder, ingredient in liquid soaps, boiler-water softener and in petroleum refining.

$K_5P_3O_{10}$ **POTASSIUM TRIPOLYPHOSPHATE**

Exploratory quantities of this newer complex phosphate are available for uses where its extremely high solubility and sequestering power is advantageous. Write for technical data.

Not a substitute for lower-priced Sodium Phosphates, these extremely highly soluble Potassium Salts have many specialized present and potential uses where their unique properties make them wholly economic.

Despite our ever-increasing production of Elemental Phosphorus, Westvaco Phosphates are still in relatively short supply. We can, however, furnish adequate quantities of Potassium Phosphates for the specialized uses in which they are most economic. Our Technical Service Division has had unusually broad experience with Complex Phosphates and welcomes the opportunity to help you with problems involving their expanded use. Your inquiry will receive prompt and intelligent handling.

Westvaco CHEMICALS TRADE MARK

**WESTVACO CHEMICAL DIVISION**
**FOOD MACHINERY AND CHEMICAL CORPORATION**
GENERAL OFFICES • 405 LEXINGTON AVENUE, NEW YORK 17
CHICAGO, ILL. • CLEVELAND, OHIO • CINCINNATI, OHIO
ST. LOUIS, MO. • LOS ANGELES, CALIF. • NEWARK, CALIF.

fmc

# Oil, Paint and Drug Reporter

DEC 4 '50

Volume 158 No. 23 | 30 Church Street, New York 7, N. Y. | December 4, 1950


## NPA Grants Powers To 19 Gov't Agencies

A list of nineteen agencies of the government which will serve as claimant agencies before the National Production Authority on behalf of industries and programs was announced November 25 by NPA. The action was a further delegation of the powers given to NPA by the President in the defense production act in contemplation of the possible extension of the priorities ratings and allocations system into non-military fields.

The Federal Security Administrator was named as the claimant for the domestic distribution of supplies and equipment needed in the fields of health, education, and recreation. It is understood that Oscar Ewing, the administrator, will delegate the authority to the Public Health Service. The Secretary of Agriculture was named claimant with respect to veterinary supplies; the Office of International Trade with respect to exports not covered by the Department of Defense, and the Economic Cooperation Administration with respect to other non-military exports.

**No Implementing Regulations**

The naming of the agencies was not accompanied by implementing regulations which gives the claimants authority to take certain actions, but these may come later, depending upon the needs for particular types of programs. In some instances a claimant agency will probably request little regulatory assistance, while in other fields complete distribution procedures may be established.

The needs of the drug industry under a program of materials controls has been stressed to NPA by spokesmen both in and out of the industry. It is understood in some quarters that the selection of the FSA administrator to be claimant for health supplies may have been the result of the urgings that the drug industry's needs not be overlooked when materials controls are imposed.

## Toledo Mayor Appointed Price Stabilization Head

President Truman appointed Mayor Michael V. DiSalle, of Toledo, Ohio, November 30 to be director of price stabilization. The appointment filled the one remaining key vacancy in the Economic Stabilization Agency, which is headed by Alan Valentine. Mayor DiSalle will assume his new duties immediately following confirmation of his nomination by the senate.

## *U. S. Lifts Import Curbs On Some Fats and Oils*

The United States Department of Agriculture announced November 27 the removal of several fats and oils from import control. The action, which became effective at 12:01 a.m., November 25, was in line with the department's general policy of removing import controls as soon as practicable. The commodities removed from import control were:—Lard, edible and inedible tallow, oleo oil and stearine, palm oil, fatty acids, soap and soap powder.

The commodities remaining under import control are butter, peanuts, peanut oil, peanut butter, soybeans and oil, sunflower seed and oil, cottonseed oil, flaxseed, flaxseed screenings, linseed oil, combinations and mixtures of animal and vegetable oils, lard compounds, rice and rice products.

## Government Purchasing Decentralization Planned

A decentralization of government purchasing so that the buying will be nearer to the best sources of supply and the point of use, was announced November 27 by the General Services Administration. The decentralization chiefly involves seventeen classes of supplies which have been purchased in the past by the Washington office.

After January 1, the New York regional office will buy federal requirements for fourteen of the classes and the Chicago office for three of the classes. The New York purchases will include chemicals, toilet articles, hospital equipment and supplies and fire fighting apparatus.

It was also announced that on additional items of toilet articles purchases would henceforth be "zoney," with the New York regional office buying for the eastern area, Chicago for the midwest and Seattle for the far west. In addition, each region will make its own schedule contracts for eight commodities and services as existing national contracts for these goods and services begin to expire next March 1. The items in this group include gasoline, fuel oil and kerosene; lubricating and other oils and greases; automotive storage batteries, and solvents.

# Price Trend Increased Sharply

Growing international tenseness, coupled with acceleration of the pace of United States preparedness program, were principal factors behind a sharp increase of 1.4 point in the overall index number on prices for chemicals, oils and drugs. There were gains in three divisional averages, against a drop in one.

There was no abatement in demand for heavy industrial chemicals, although pressure for shipments eased slightly. New shortages seemed to be developing daily. Advances were made in prices on cadmium, quicksilver and tin, lead-based chemicals, molybdenum trioxide and tin sulphate.

Crude vegetable oils rallied as a result of unfavorable Korean war news, to regain losses sustained in the previous week. The market was erratic and fluctuated with the movement of soybeans and cotton. Trading was limited with buyers awaiting developments. In the field of protective coatings, titanium dioxide and titanium pigment moved up in price as one producer, who had been holding to old listings, joined in the upward trend. Prices on both domestic and imported casein continued their upward climb.

Fifteen essential oils and four aromatic chemicals showed higher prices, some of them quite marked, while only two oils were reduced, bringing a revival of the upward trend of the summer months. It is assumed that the Far East crisis will soon further disturb the already difficult supply situation of many of the items that originate in Soviet-dominated areas. As to botanicals, strong and advancing prices for ergot, ipecac, Irish moss, Alexandrian senna and Jamaica ginger were countered, in very feeble fashion, by declines in Chinese cantharides, boldo and uva ursi leaves.

Some producers of alcohol advanced prices. Acetophenetidin, methyl salicylate, salol, aspirin, bromine and various minor bromides were upped by some makers. Synthetic methanol was higher. Cocoa butter weakened early in the week but bounded back by week's end. Menthol was reduced. Basic products held to former price levels in the coaltar field, where metacresol and resorcinol were advanced. More producers advanced quotations on DDT and it looked as though the market would be established at the higher level shortly. Egg albumen was advanced, for the sole change among the textile chemicals.

### OPD Price Index

The OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

| Dec. 1, 1950 | Nov. 24, 1950 | Dec. 30, 1949 | Dec. 2, 1949 |
|---|---|---|---|
| 140.6 | 139.2 | 124.8 | 124.5 |

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

**OPD Index Monthly Averages**

| | 1950 | 1949 | 1947 | 1946 | 1941 |
|---|---|---|---|---|---|
| January | 123.2 | 142.0 | 150.9 | 135.3 | 107.3 |
| February | 121.3 | 140.4 | 151.9 | 135.4 | 110.3 |
| March | 121.8 | 137.6 | 154.9 | 135.2 | 111.9 |
| April | 121.0 | 133.6 | 152.3 | 134.9 | 115.5 |
| May | 120.6 | 131.2 | 146.1 | 135.1 | 118.2 |
| June | 120.7 | 128.7 | 143.9 | 135.4 | 121.9 |
| July | 122.8 | 128.1 | 142.5 | 137.7 | 125.5 |
| August | 128.8 | 128.9 | 140.4 | 136.6 | 128.2 |
| September | 135.1 | 129.1 | 141.9 | 137.0 | 130.4 |
| October | 137.8 | 126.6 | 146.1 | 143.1 | 133.2 |
| November | 138.4 | 125.7 | 149.7 | 149.2 | 135.1 |

# Congress Urged to Use Caution In Curbing Chemicals in Foods

Industry spokesmen urged congress last week to go slow in drafting new laws for curbing the use of chemicals in foods, lest unwarranted restrictions and costly requirements be imposed on the producers and consumers of these materials that would retard technological advances in this field.

Testifying before the Delaney committee of the house investigating the use of chemicals in foods, spokesmen for both the agricultural chemicals producers and the chemical industry generally argued that the record of enforcement of the existing laws does not warrant any major legislative changes at this time.

The suggestion most often made to the committee is that the federal food, drug and cosmetic act be amended to provide a system of government approvals of food uses for chemicals similar to that applicable to the introduction of new drugs. Legislation carrying out these suggestions was introduced into the hearings November 28 on behalf of the Food and Drug Administration by Associate Commissioner Charles W. Crawford.

Mr. Crawford told the committee that there is a "lack of effective law" dealing with chemica's that have not been adequately tested before they are introduced in foods. He said that it would be desirable to amend the food and drug act so as to require adequate testing of these materials, and, in effect, give a clearance to the chemical on the basis of its safety. The bill he proposed to the committee would give FDA sixty days, but not more than 180 days, within which to pass upon the safety of a chemical additive to foods.

**Hitchner Protests Criticisms**

Lea S. Hitchner, secretary of the National Agricultural Chemicals Association, the first industry witness heard, opposed the adoption of new legislation as being unnecessary for the protection of public health. He said there has been careless and unsubstantiated criticisms of the use of pest control chemicals that has created an unjustified fear among consumers of food products.

He said that NACA and its members have always supported sound, constructive legislation in the public interest and cited its work in helping to draft the economic poisons law of 1947 and the uniform state legislation patterned after that law. He emphasized that pesticides are necessary materials for use by growers and cited testimony at the recent spray tolerance hearings of the great importance of pesticides to agriculture.

**Intense Cross Examination**

Mr. Hitchner was pointedly cross examined on his statements by Vincent Klienfeld, chief counsel for the committee, who sought to show that adequate research had not been resorted to before new chemical pesticides were placed on the market. Mr. Klienfeld demanded to know Mr. Hitchner's personal knowledge about the use of some of the newer materials and questioned him on some of the toxicity aspects of these materials on humans. As a result of the continuous questioning much of the material the witness had brought for the record never got in.

Speaking on behalf of the Manufacturing Chemists' Association, Dr. John Foulger, of E. I. duPont de Nemours & Co., also showed that the producers of chemicals are acutely aware of the seriousness of the problem of seeing to it that chemicals used for foods are safe and, like Mr. Hitchner, questioned the need of new major legislation. In any event, he added, no change should be made without long and thorough consideration of the scientific facts and of the disadvantages as well as advantages to the public in exceedingly restrictive rules and costly requirements.

**Enforcement Difficulties Cited**

He urged that a "new drug" application type of control not be placed on individual ingredients of foods because such control is indirect and will raise serious enforcement and compliance difficulties. Instead, he suggested, thought should be given to amending the FDA act to provide that FDA be notified of the intent to add to any food an ingredient that has not previously been used in that food. Such a provision would give the agency full and current information on which it could act in accordance with present authority, he stated.

Dr. Foulger pointed out some of the

—*Continued on page 37*

## Gypsum 'Trust' Injunction Tightened by High Court

The existing injunction against violation of the Sherman act by the United States Gypsum Company and others was extended November 27 by the Supreme Court of the United States to cover gypsum products as well as patented gypsum board. Also, the decree against price fixing was made operative nationally instead of just on the eastern seaboard.

The extension of the injunction was at the request of the government which had appealed from a decision of lower court that the injunctive relief it had granted was not broad enough. The new decree includes all gypsum products, covers operations all over the United States of the defendant companies and includes the following:—

A ban upon standardization of trade practices through concerted agreement; a prohibition upon sales at prices determined pursuant to a delivered price plan which results in identical prices or price quotations at given points; a requirement that United States Gypsum Company license all its patents in the gypsum products field to all applicants on equal terms, and the right of the government to inspect books or licensees and reports to the licensor.

## Korean Fertilizer Awards Held Up on ECA Order

Contracts which were to have been awarded within a few days after the opening of bids November 27 for supplying the government with 35,000 to 40,000 metric tons of nitrogenous fertilizer for Korea have been held up by the Federal Supply Service on orders of the Economic Cooperation Administration. The "freeze" order was the result of the unfavorable military developments in Korea of the last few days.

The fertilizer was to be part of approximately $9,000,000 worth of various fertilizers to be sent to Korea by ECA for next year's crops. The invitation called for nitrogenous material of any type that contained at least 16 percent nitrogen. Ten firms offered to supply the material. One offered Hamburg, Germany, as its supply source, and two others offered Antwerp, Belgium, as a source. Others offered domestic material.

## Explosives Transportation Rules Amended by ICC

Regulations covering the transportation of pentaborane and perchloromethylmercaptan were issued November 30 by the Interstate Commerce Commission as amendments to regulations covering the rail movement of explosives and other dangerous articles.

Pentaborane is classified in the regulations as an inflamable liquid which must bear a red label. The material can not be accepted for rail express shipment. Perchloromethylmercaptan is a poison "B" material that must bear the poison label. It can be shipped by rail express in quantities of not more than 10 pounds in a single container.

ICC also announced a number of other amendments to the regulations as respects the packing and marking of explosives, flamable liquids, solids and oxidizing materials, and compressed gases and poisonous articles.

## FTC Appointment to Senate

The nomination of Stephen J. Spingarn of New York to be a member of the Federal Trade Commission was sent to the senate November 28 by President Truman for confirmation. Mr Spingarn was named to the post during the congressional recess. He fills the vacancy caused by the death of Commissioner Edwin Davis for the term expiring September 26, 1953.

# National Drug Trade Conference Studies Bills to Change FTC Law

Almost the entire forenoon session of the National Drug Trade Conference,, held in Washington, D. C., December 1, was devoted to discussion of national legislation. James F. Hoge, after briefly reviewing the number of bills which have to do with amendments to the Federal Trade Commission law and other antitrust laws, took up for particular discussion the Van Zandt bill having to do with the labeling of drugs for export and the Doyle bill which would change the seizure powers of the Food and Drug Administration.

He then went on to comment on the proposed program of certification of antibiotics which he said was progressing toward an adaptation of the new drug principle of food and drug law. This matter was broadly discussed by representatives of a number of the constituent organizations. A question was raised on why the drug trade was favoring a certification plan when it expected that the idea would be spread to other classes of drugs. The explanation was that antibiotics certification could not be circumvented and the endeavor was to place at least a time limit on the exercise of such authority by the Food and Drug Administration.

Among the points made in this connection was the statement that the administration is collecting about $3,000,000 a year in certification fees, the money being retained for its own use. Mr. Hoge made the most emphasis on the Durham-Humphrey bill which would give the FDA full authority to determine what prescriptions might be refilled by a pharmacist. This matter was discussed at length.

**Divergent Views Aired**

Several interests of the drug trade are not in agreement on the necessity for the bill or its effects. The National Association of Retail Druggists is supporting it. A question was raised as to whether the present law authorizes any general prohibition of refilling of prescriptions. The consensus was that it does not. The suggestion was made by L. D. Harrop that the various constituents of the conference should submit the matter to the organization which would take it to the American Medical Association and then to the Food and Drug Administration in an endeavor

—*Continued on page 37*

## Italian, French Olive Oil Production Seen Lower

Italian olive oil production during 1950-51 is estimated by unofficial trade sources at about 165,400 short tons of edible oil and 19,800 tons of sulphured olive oil, compared with the official estimate for 1949-50 edible oil production of 198,400 tons (plus about 14,300 tons of edible oil rectified from sulphured oil), according to Vice-Consul John A. Moran, 3rd, American Consulate General, Naples.

Informed dealers and exporters are unable even to approximate the quantity of olive oil destined for shipment abroad. Exports of Italian olive oil depend on local prices compared with other competitive markets in the Mediterranean Basin. Some dealers believe that the decision of the Spanish Government to increase the export price of Spanish olive oil by over 40 percent will assist Italian exporters in placing olive oil on foreign markets.

Even when there is an abundant olive crop, national consumption of edible oil is such that it is necessary to import oils and oilseeds to meet local requirements. As 1950-51 production is low, it is expected that oils and oilseeds will be imported on a larger scale than in previous years. Left-over stocks from last year's olive oil production are estimated to be about 20,000 to 30,000 tons.

**French Production Estimate**

At the same time, France's 1950-51 olive oil production is expected to amount to approximately 5,000 short tons of edible oil and 1,100 tons of inedible oil against 8,800 and 1,100 tons, respectively, last season and a total of about 7,700 tons in prewar years, reports Vice-Consul E. C. Rendall, American Consulate General, Marseille. Estimates of this year's output were revised sharply downward recently when great damage was suffered in some areas from the olive fly.

French olive oil consumption during the past year is reliably estimated to have approached the prewar average of 27,550 tons. This increase is accounted for by the resumption of imports from Tunisia, which drove prices on local markets to a postwar low. In fact, the price of olive oil was for a time lower than that of peanut oil—a phenomenon which induced considerable blending of the two oils.

## Management Engineers Elect H.G. Crockett President

The Association of Consulting Management Engineers has elected Horace G. Crockett, a partner in McKinsey & Co., president of the organization. Elected vice-presidents were James L. Allen, a partner in Booz, Allen & Hamilton, Chicago; Arthur B. Dougall, vice-president of Stewart Dougall & Associates, Inc., and David A. Uebelacker, vice-president of Ford, Bacon & Davis, Inc. David S. Loudon, vice-president of George S. Armstrong & Co., was named secretary-treasurer.

## Canadian Chemical Institute Annual Meeting June 18-20

The Chemical Institute of Canada will hold its 34th annual conference in Winnipeg, June 18 to 20, 1951. At technical sessions during the three-day conference, papers will be presented in agricultural chemistry and food technology, analytical chemistry, biological chemistry and nutrition, chemical education, chemical engineering, organic chemistry, physical chemistry, and protective coatings.

## Export Policy Probe Asked

A full-scale, congressional investigation of the export policies and control regulations of the government was proposed in the senate, November 29, in a resolution sponsored by Senators Herbert O'Conor of Maryland and Warren Magnuson of Washington. The investigation is an aftermath of the recent inquiries by a subcommittee headed by Mr. O'Conor into the shipments of petroleum and critical metals to Red China.

## Wheeling Steel Corp. Elects New President

Wheeling Steel Corporation, Wheeling, W. Va., elected J. L. Neudoerfer president, November 29, to succeed A. J. McFarland, who died earlier in the week. Mr. Neudoerfer has been executive vice-president of the company since 1949, and prior to that was vice-president in charge of sales.

## Lion Oil Names Foringer Industrial Relations Head

Lion Oil Company, El Dorado, Ark., has appointed John W. B. Foringer director of industrial relations for the concern. From 1936 to 1939 Mr. Foringer handled labor and personnel problems for Owens-Illinois Pacific Coast Company, a subsidiary of Owens-Illinois Glass Company. From 1939 until 1947 he did similar work for United States Steel Corporation subsidiaries. For the next two years he served as vice-president in charge of industrial relations of the Kansas City Power & Light Company, and since that time has been a legal and financial consultant at Douglas, Ariz.

## AEC Names Anderson Manager at Schenectady

J. D. Anderson, former assistant manager of the Atomic Energy Commission's office in Schenectady, N. Y., has been appointed manager to succeed James C. Stewart, the agency announced November 30. Mr. Stewart has been shifted to AEC's new operations office now temporarily located in Wilmington, Del., where he will be director of the engineering, construction and production division. Both men have already assumed their new duties.

## U. S. Rubber Names Wintsch

Appointment of Dr. Harry Wintsch as assistant to the production manager, Naugatuck chemical division, United States Rubber Company, was announced November 29 by John C. H. Wendes, production manager. Dr. Wintsch, a veteran of twenty-three years with U. S. Rubber, was formerly production superintendent of Naugatuck chemical's plant at Naugatuck, Conn.

### *Top Manager Now*

Robert D. Bonney has been made manager of manufacturing for Congoleum-Nairn, Inc., Kearny, N. J., effective November 20. He had been assistant manager since 1934. He went with Congoleum-Nairn as a chemist with the Congoleum company in the merger in 1924.

Mr. Bonney is president of the Federation of Paint and Varnish Production Clubs.

## Soybean World Output Seen at Record High

World soybean production in 1950, estimated at 626,000,000 bushels, is a new record and surpasses the previous high in 1948 by 63,000,000 bushels, according to the Office of Foreign Agricultural Relations. The United States and Canada harvested their largest crops and indications point to a near-average crop in China, it was stated. About 93 percent of the 1950 world soybean crop is in the United States, China and Manchuria. Canada's 1950 soybean outturn is more than 3,000,000 bushels from 142,000 acres, representing increases from last year of 17 and 36 percent in production and acreage respectively.

## Standards Bureau Regains Supply Acquisition Powers

The General Services Administration has restored to the Bureau of Standards the authority to negotiate and enter into contracts with suppliers for the purchase of materials needed in its experimental work.

In an order made public November 23, the administrator of GSA delegated authority to the Secretary of Commerce, for use by the bureau, to make purchases and contracts for supplies and services for the experimental work carried on by the bureau for itself and for other agencies of the government.

## American Standards Ass'n Reelects T. Jolly President

The American Standards Association, which last week held its thirty-second annual meeting in New York, reelected Thomas D. Jolly, vice-president of the Aluminum Company of America, to his third term as president of the Association. Reelected with Mr. Jolly were Harold S. Osborne as vice-president, Walter C. Wagner as chairman of the standards council, and J. R. Townsend as vice-chairman of the council.

## Sulphur Chloride Prices Upped for Tanks, Carlots

A leading producer of sulphur chloride last week advanced prices ¼ cent per pound for both mono and di in carlot and tankcar quantities. Effective immediately, the tankcar price is 3¼ cents per pound and that of carlots is 3½ cents per pound, both freight equalized. The price for less carlots remains at 4¼ cents per pound.

## Bone Black Advance Jan. 1

Bone black will advance 3/8c. per pound January 1, it was announced late Friday by Binney & Smith Company, New York. This will amount to an increase of about two and one half percent. Present production, it was reported, is about equal to the demand.

Oil, Paint and Drug Reporter, Vol. 158, No. 23, December 4, 1950. Published every Monday by Schnell Publishing Company, Inc., 30 Church Street, New York 7, N. Y., U. S. A. Subscription prices—United States and possessions, Cuba, Central America and South America, $5 a year; Canada and Newfoundland, $7; other countries, $10. Entered as second-class matter, January 15, 1884, at the New York Post Office under the act of March 3, 1879. Copyright, 1950, by Schnell Publishing Company, Inc.

## In This Issue


AIChE Elects Chilton '51 President..... 7
Allied Elects Hazard..... 8
Amer. Cyanamid Designs Emulsified Unit.... 75
Antimony Mine Output: 1949..... 45
APMA Midyear Meeting Held..... 7
Armour Labs Forms International Dept..... 59
Asbestos Supply in 1949 Upset by Strike.. 70
Barrett Appoints Tyson..... 47
Brill Directs Sugar Ref'y Equipment Sale.... 83
Carbon Black Production: 1949..... 75
Carpenter Steel Shifts Staples..... 43
Caution Urged in Chem. in Foods Curbing.. 3
CCC Ups December Rosin Prices..... 5
Coalite & Chemical Issues Data..... 50
Cook, USP Revision Chairman, Honored.... 7
Coons Elected Rheem Director..... 7
DuPont 'Cordura' Rayon Post to Gamble.... 45
Eastern Railroads Ask Freight Rate Rise... 5
ECA Additional Authorizations..... 43
Emery Leaving Phillips..... 53
Essential Oil Assn. Issues Meeting Program. 7
Falk Appoints Rogaliner..... 5
Fertilizer Tag Sales: September..... 46
Fluorspar Shipments: 1949..... 43
German Potash Group US Assets Vested... 79
Gov't Purchasing Decentralization Plan.... 3
GSA, NPA Act on Critical Metals Use..... 5
Higburg Forms William Chemical..... 5
Hilton-Davis Appoints 2 West Coast Agents. 50
Hochwalt, Williams Named by Monsanto.... 5
Humphrey-Wilkinson Offers Dicetyl Ether.. 59
India Finds Coal for Synthetic Oil ..... 53
Jap Dollar Import Schedule Issued..... 76
Koppers Co. Names Byrom..... 50
Korean Fertilizer Awards Held Up..... 3
Kulow Forms Own Firm..... 45
Manganese Nutritional Study Extended.... 59
Margarine Output: Oct..... 78
Marshall Opens Office..... 86
Minn. Mining, Carborundum Weigh Merger.. 5
Mobilization Congress Meets Wednesday.... 7
Natl. Lead to Move Baroid Offices..... 53
Naval Stores Firms File Suit Denial..... 5
Northeast Weed Control Parley Slated..... 7
NPA Grants Powers to Gov't Agencies ..... 3
Phila. Chemical Club Xmas Party Set..... 43
Phillips Appoints Ronan..... 71
Phillips Petroleum to Operate Reactor..... 5
Pittsburgh ACS to Honor Hamor..... 43
Reheis Co. Enlarges Laboratory..... 45
Socony-Vacuum Derations 'S/V Sovaloid C'. 75
Shell to Up Synthetic Glycerin Output..... 5
Smith Gets Barrett Cleveland Plant..... 5
Sonbert Joins Polychemical..... 71
Spingarn Appointment to Senate..... 3
Steel Shipping Barrels Output: Sept..... 50
Stokes Machine Launches Expansion..... 45
Toledo Mayor Heads Price Stabilization..... 3
Truman Asks RFC Members Confirmation.. 82
U.S. Barite Output, use: 1949..... 75
US Lifts Fats, Oils Import Curbs..... 3
Wisc. Lead-Zinc Deposit Data Issued..... 76


### *General Features*


Advertising Index..... 83
Association Meeting Dates..... 7
Bids Wanted..... 69
Classified Advertisements..... 82
Consulting Chemists and Engineers..... 71
Crude Oil Stocks..... 51
Current Market Quotations..... 9
Editorials ..... 38
Foreign Sales Leads..... 5
Forum ..... 38
Imports ..... 60
Imports Detained..... 65
Obituaries ..... 52
OPD Price Index..... 3
Trade Briefs..... 43, 47, 75
Washington Talks It Over..... 5
Who Has It..... 4


### *Market Reports*


Agricultural Chemicals..... 46
Botanical Drugs, Spices, Gums..... 65
Coaltar Chemicals..... 48
Drugs and Fine Chemicals..... 55
Essential Oils, Other Aromatics..... 67
Heavy Chemicals..... 41
Oils, Fats and Waxes..... 77
Petroleum Derivatives..... 51
Protective Coating Materials..... 73
Textile and Leather Chemicals..... 44


## Steroids Symposium Called January 15-18 in Mexico

A symposium on steroids in clinical and experimental practice will be held January 15 to 18, 1951, in Cuernavaca, Mexico, under the auspices of a committee of industrial and institutional scientists.

Membership in the conference is limited by invitation to those individuals nominated either by the committee from the United States or by a Mexican subcommittee. The January conference will deal with the present status of the non-11-oxygenated steroids and an effort will be made to evaluate clinical therapy with such steroids in the fields of rheumatology and cancer.

The sponsoring committee comprises Dr. Konrad Dobriner, Sloan-Kettering Institute for Cancer Research, New York; Dr. Paul Holbrook, Tucson, Ariz.; Dr. Gregory Pincus, Worcester Foundation for Experimental Biology, Shrewsbury, Mass.; Dr. E. C. Reifenstein, jr., Research Institute, Oklahoma Medical Research Foundation, Oklahoma City, Okla.; Dr. I. V. Sollins, Chemical Specialties Company, New York, and Syntex S.A., Mexico City, D.F., and Dr. Abraham White, University of California.

## Naval Stores Antitrust Charge Denied Flatly

The Savannah Cotton & Naval Stores Exchange and seven navel stores companies denied categorically government antitrust charges in a reply filed November 15 in federal court at Savannah, Ga. The seven firms were Columbia Naval Stores Company, four affiliated concerns of Columbia, Turpentine & Rosin Factors and Pine Tree Products, Inc.

Denied outright were charges that the exchange's quotations committee was guilty of 'arbitrary" action and that Columbia and Turpentine & Rosin Factors made small offerings to manipulate prices. The "weighted average" method of computing prices by the exchange was defended.

It was pointed out that Columbia, while it frequently made rosin and turpentine offerings on the exchange as agent for its subsidiary companies, was only contributing toward the establishment of a basic competitive market at Savannah, and that the offerings were in no way intended for the control of prices. Columbia stated that it customarily put in a "protective bid" to set the minimum price at which the concern was willing for its offerings to be sold, but emphasized that it had no prior knowledge of what prices would be bid for these offerings by other buyers.

In defense of the "weighted average" method of price computation, the Savannah exchange declared that "under prevailing conditions in the naval stores industry, the weighted average method of arriving at the market for gum rosin and gum turpentine, represents the fair, reliable and practical price index for all branches of the industry and is reflective of demand and supply therein."

Meanwhile, it was announced that Olin T. McIntosh, sr., has been elected president of the Savannah Cotton & Naval Stores Exchange. Other officers are:—Prior J. Rooney, vice-president, and E. J. Oettler, Walter C. Carson and E. S. Trosdal, jr., directors for three-year terms.

## Phillips Petroleum Appointed To Operate AEC Reactor

The Idaho operations office of the Atomic Energy Commission has named Phillips Petroleum Company, Bartlesville, Okla., as the operator of a new materials testing reactor which is being constructed in southeastern Idaho. The appointment is subject to completion of contract negotiations now in progress.

The new reactor is located on the Snake River Plains, west of Idaho Falls. It is one of three different types of atomic reactors now being built on the Idaho site. The main purpose of the new reactor will be to test materials which may be used in future reactor construction.

### *Williams Chemical Pres.*

William Higburg has announced the formation of The Williams Chemical Corporation, 725 East 58th street, Indianapolis, Ind. Mr. Higburg, who is serving as president of the newly-organized concern, was for more than thirty years affiliated with the Reilly Tar & Chemical Corporation and its affiliated companies at Indianapolis. Williams Chemical will engage in the manufacture, purchasing, selling and dealing in chemical products, materials and commodities and act as sales agents, manufacturers representatives and/or brokers in the marketing of these materials.

## Eastern Railroads Ask Freight Rate Increase

The eastern railroads petitioned the Interstate Commerce Commission December 1 for a 4 percent increase in freight rates on all traffic except coal. They asked for a 12 percent increase in the rates on coal.

The carriers said that wage increases during the past six months and the rising costs of fuel and supplies makes it necessary to increase existing freight rates. Parties to the petition were all the railroads serving the country East of the Mississippi and North of Potomac and Ohio Rivers.

## Allied Elects Hazard

Allied Chemical & Dye Corporation, New York, has elected Thomas P. Hazard, to its board of directors. The company also appointed Forbes Silsby, director of research and development of the firm, to the post of vice-president.

# GSA, NPA Act on Aluminum, Copper and Cobalt Consumption

Actions affecting consumption of three critical metals were announced last week by the General Services Administration and the National Production Authority. The metals are aluminum, copper and cobalt.

GSA announced signing of agreements with three producers whereby an additional 399,000 tons of aluminum will be made available to the government under an industry expansion program. Aluminum Company of America will supply an additional 199,000 tons, and Reynolds Metals Company and Kaiser Aluminum & Chemical Corporation will each supply an additional 100,000 tons.

Also affecting aluminum was issuance, November 27, of NPA order M-7, direction 1, providing for adjustments in certain cases for the month of December. It supplements the original order's provisions, permitting adjustments where a business operation was commenced during or after the base period, or where an undue or exceptional hardship, not suffered by others in the same industry or trade, occurs.

**NPA Copper Order**

NPA also took action to assure copper supplies for the expanding rearmament program. It issued NPA order M-12, which limits non-defense production and use of brass mill and copper wire mill products by total weight to 85 percent in January and February, and 80 percent in March—foundry products to 100 percent—of the average quarterly production and use during the first six months of 1950.

In another order, M-11, NPA acted to make possible maximum production of copper and copper-based alloys by providing uniform distribution of rated orders among all producers, fabricators, jobbers and warehousers, thereby retaining established distribution channels.

**Cobalt Inventories Limited**

The NPA cobalt order, M-10, limits cobalt inventories, effective November 30, to a twenty-day supply, and directs the sole importer on how to distribute the supply during December.

As a result of the pacts concluded last week by GSA, Aluminum Company of America will expand its facilities at Point Comfort, Tex., and construct a new plant at a site not yet determined. These moves are expected to add 120,000 tons of aluminum annually. Previously Alcoa had agreed to reactivate immediately its facilities at Massena, N. Y., and Badin, N. C., which are capable of producing 79,000 tons per year.

The agreement with Reynolds Metals calls for construction of a new plant by that company and at an as yet undetermined site, and expansion of its facilities at Jones Mill, Ark. The accord reached with Kaiser Aluminum calls for the erection of new facilities by that concern. Actions by these two companies will produce an additional 100,000 tons annually apiece.

## CCC Increases Rosin Prices for December

Commodity Credit Corporation increased the prices of its gum rosin offerings for December by 5 cents per hundred pounds over the November prices, it was announced December 1. The agency stated that it has 80,000 drums of gum rosin for sale at the following prices:—$8.50 per hundred pounds for grades M through G, $8.65 for grade N, $8.75 for grade WG, and $9 for grades X and WW.

The prices of other commodities in the list of CCC offerings remain unchanged from November with the exception of flaxseed. The price for domestic sales of flaxseed was continued at $3.60 per bushel, but for export was stated at $3.52 a bushel. The agency has 2,000,000 bushels available for sale.

## Minn. Mining, Carborundum Company Weighing Merger

Minnesota Mining & Manufacturing Company, St. Paul, Minn., and Carborundum Company, Niagara Falls, N. Y., are considering a merger, according to a joint statement issued by the concerns last week.

Minnesota Mining would be the surviving company, with the merger based on an exchange of two shares of its common stock for each share of Carborundum stock. The merger plan is thus tied in with the four-for-one split voted by 3M directors on November 2. Major reason for the consolidation, according to a Minnesota Mining spokesman, is to assure the concern a steady supply of raw materials. Carborundum Company is the principal supplier of raw abrasive materials to 3M.

## Hochwalt and Williams Named by Monsanto

Dr. Carroll A. Hochwalt and Felix N. Williams have been appointed to Monsanto Chemical Company's executive committee by the board of directors, it has been announced. This increases the company's executive committee to six men.

Dr. Hochwalt is a vice-president and a member of the board of directors. His sphere of activity will include the research, development and patent activities of the company. Mr. Williams also is vice-president and a member of the board of directors. He will be in sales, advertising, foreign and specialty products. Dr. Hochwalt has been with the company since 1936 when the Thomas & Hochwalt Laboratories, Dayton, Ohio, were acquired by Monsanto. Mr. Williams joined Monsanto at Anniston, Ala., in 1923.

## Shell to Step Up Synthetic Glycerin Production by 50 %

Shell Chemical Corporation, New York, has announced plans to increase its production of synthetic glycerin at its Houston, Tex., plant by 50 percent. The additional output is to come on stream in increments during 1951.

Glycerin has been in very short supply, due chiefly to the reduced production of byproduct glycerin from soap manufacture as a result of greater use of synthetic detergents. An added factor has been the general increase in both civilian and defense requirements for the material. Shell's synthetic glycerin plant went on stream in 1948.

## *Foreign Sales Leads*

Firms in the United States who are interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Asbestos, Brive, France (GO-4).
Caustic soda, Rio Grande, Brazil (GO-1).
Nickel anodes, Porto Alegre, Brazil (GO-3).
Non-ferrous metals, Sao Paulo, Brazil (GO-2).
Sodium silicate, Rio Grande, Brazil (GO-1).
Turpentine essence, Rio Grande, Brazil (GO-1).

## N.Y. Trade Board Reveals Nominating Committee Slate

The New York Board of Trade last week announced the slate of directors, selected by the nominating committee, to be voted by the membership at the annual meeting, to be held in the board room December 12. Among those selected are:—

Stanley I. Clark, Sterling Drug, Inc., for director at large, and Jarvis Cromwell, William Iselin & Co.; James G. Flanagan, S. B. Penick & Co.; Harold C. Green, L. Sonneborn Sons, Inc.; Gerald L. Smith, American Home Products Corporation, and Lloyd I. Volckening, Ivers-Lee Company, all for the class expiring in 1954.

## Werner G. Smith Acquires Barrett Plant in Cleveland

Werner G. Smith, Inc., Cleveland, Ohio, has acquired the plant at 1730 Train avenue in that city from the Barrett Division, Allied Chemical & Dye Corporation, New York. Fish oil and sperm oil will be refined in the new plant and foundry core oil will be manufactured. It will also be used for the storage of tung and oiticica oils. The plant has a total capacity of 4,000,000 gallons and provides one of the larger vegetable oil storage facilities in the midwest.

## Falk Appoints Rogaliner Resin Sales Vice-Pres.

Falk & Co., Pittsburgh, Pa., has appointed Stanley D. Rogaliner vice-president in charge of sales of resins and specialty products. Mr. Rogaliner, formerly secretary of the company, has been with Falk since 1937. He will continue to make Pittsburgh his headquarters with offices at Falk's Carnegie plant.

# *Washington Talks It Over*

**By Ralph L. Cherry**

Visitors to the hearings of the Delaney committee investigating chemicals in foods during the appearance last week of Lea Hitchner, secretary of the National Agricultural Chemicals Association, must have wondered for a time whether they had not mistakenly taken a wrong turn somewhere in the capitol corridors and wound up at a court trial instead of the usual placid sessions of this committee.

Seldom has a witness been subjected to such pointed questioning as was Mr. Hitchner by committee counsel, and certainly not at any prior hearing of this group. Mr. Hitchner was the first industry witness to appear before the committee, and his position was that he did not think that new legislation is necessary to protect the public health. All previous witnesses have urged a strengthening of government regulation, most of them favoring amending the foods and drugs law to place the burden of proof on industry at the outset to show that a new chemical can be safely used in foods.

Mr. Hitchner was on the stand for over an hour, with a good part of the time taken up by the committee counsel in close cross-examination of various points Mr. Hitchner sought to show, and also including such things as his right to speak for the association, his academic qualifications to discuss the subject, when, where, and who made certain remarks to which Mr. Hitchner had alluded, and things of that sort. At times the questioning was quite heated, with the counsel insisting on "yes" or 'no'" answers. The chairman finally had to intervene.

The upshot of it was that Mr. Hitchner never was able to finish his statement, and he was unable to get into the record a considerable amount of material which he thought necessary to support his position. Being the industry's spokesman, he also thought that he should have had more than a few minutes' prior notice that the Food and Drug Administration had prepared a bill which it presented to the committee just before he took the stand.

All in all, Mr. Hitchner's supporters were shocked and amazed over the way the witness had been handled, and doubtlessly some of the people scheduled to be heard later were wondering whether they would be given the same treatment.

**Explosives Transportation Rules**

The Interstate Commerce Commission is preparing a reissue of its regulations covering the transportation of explosives and other dangerous articles, which will include all the revisions and basic regulations and specifications under one cover. For years, the commission's regulations have been out of print, and shippers have had to utilize Campbell's tariff No. 4, a privately printed document of the Bureau of Explosives.

The regulations will appear as a supplement to the *Federal Register* of December 2, and subscribers to the Register will automatically receive a copy. Copies can be purchased from the Superintendent of Documents by nonsubscribers or by those who need more than one copy. Later, the Government Printing Office will published the regulations in a durable book form.

Shortly after the first of the year, the Bureau of Explosives also is expected to issue a new tariff No. 8, incorporating the new regulations and consolidating the old

—*Continued on page 38*

# Could the chemical industry do without the telephone?

These days, Graham Bell's invention gets plenty of action from Purchasing Agents. Before an order for Fatty Acids is placed, a round of calls is made. PA's claim it's the only way they can get the best price quotation. So they're clamping ears to receivers—and the time adds up. Are all those nickels necessary?

Take a look at current and past quotations for Fatty Acids. By comparison you'll find Woburn has always offered quality Fatty Acids at parity market prices. In this industry, where price is important—Woburn prices have consistently been in line.

This fact can be good news for you. It means only one call for Fatty Acids. Call Woburn—KEarny 2-3300. The price is always right.

Woburn is also known for the quality of its Fatty Acids. But we're discussing that in other advertisements. Here we've been suggesting how you can save time. This advertisemet took only 61 seconds to read. The suggestion will save you more than minutes. Not to mention the nickels.

## WOBURN CHEMICAL CORP. (N.J.)

FATTY ACIDS, SPLIT AND DISTILLED

CASTOR • CHINAWOOD • COCOANUT • CONJULIN • COTTONSEED • DISTOLINE
HELIOLINE • ISOLINE • LAURIC • LINSEED • MARINE • PALM • SOYA • TALLOW

*SYNTHETIC DRYING OILS, ESTERS AND PLASTICIZERS • ESTER GUMS AND ROSINS • PIGMENTS AND COLORS*

1200 HARRISON AVENUE, KEARNY, NEW JERSEY • KEARNY 2-3300

**HELIOLINE D**

*A light-color fractionated fatty acid of sunflower type for light colored color-retentive alkyds of the baking type. Free of linolenic acid. Recommended also for soaps and detergents when a light-colored product of minimum residual odors is desired.*

WOBURN dependable PRODUCTS

## Association Meetings

American Drug Manufacturers Association, Greenbrier hotel, White Sulphur Springs, W. Va., April 30-May 3.

American Institute of Chemical Engineers, Neal House, Columbus, Ohio, December 3-6.

American Pharmaceutical Manufacturers Association. Boca Raton, Fla., April 2-4.

American Society for Testing Materials, spring meeting and committee week, Cincinnati, Ohio, March 5-9; annual meeting. Atlantic City, N. J., June 18-22.

BIMS of New York, annual dinner, New York Athletic Club, New York, January 25.

Chemical Market Research Association, Biltmore hotel, New York, December 5-6.

Chemical Specialties Manufacturers Association. New Yorker hotel, New York. December 3-5

Essential Oil Association, scientific section, Advertising Club, New York, December 7.

Manufacturing Chemists Association, outing, Greenbrier hotel, White Sulphur Springs, W. Va., June 14-16.

National Wholesale Druggist's Association, annual meeting, Shamrock hotel, Houston, Tex., October 13 to 18.

Northeastern Weed Control Conference, New Yorker hotel, New York, January 3-5.

Plant Maintenance Show, Auditorium, Cleveland, Ohio, January 15-18.

Proprietary Association, scientific section, Biltmore hotel, New York, December 7; annual meeting, Biltmore hotel, New York, May 14-16.

Public Relations Society of America, Waldorf-Astoria hotel, New York, December 3-6.

Salesmen's Association of the American Chemical Industry, Christmas party, Astor hotel, New York, December 13.

Society of Cosmetic Chemists, fall meeting, Biltmore hotel, New York, December 5.

Society of the Plastics Industry, plastics film, sheeting and coating fabrics conference, Commodore hotel, New York, December 14-15.

Society of Plastics Engineers, national technical conference, Statler hotel, New York, January 18-20.

Society of the Plastics Industry, Greenbrier hotel, White Sulphur Springs, W. Va., May 24-25.

Synthetic Organic Chemical Manufacturers Association, annual meeting, Commodore hotel, New York, December 12.

Toilet Goods Association, scientific section, Waldorf-Astoria hotel, New York, December 6, annual meeting, Waldorf-Astoria hotel, New York, May 15-17, 1951.

## Essential Oil Ass'n Issues Scientific Meeting Program

The scientific section of the Essential Oil Association, which will hold its annual meeting December 7 at the Advertising Club, New York, has outlined its program.

Dr. Eric Kunz, of Givaudan-Delawanna and chairman of the section, will open the meeting with an introductory address. The main order of business will be presentation of the following proposed specifications:—

Amyl cinnamic aldehyde, E. T. Theimer, of Van Ameringen-Haebler, Inc.; oil of geranium, R. Weber, of Schimmel & Co.; methyl phenyl carbinol and methyl phenyl carbinyl acetate, W. G. Meuly, of E. I. duPont de Nemours & Co.; tests for gums and resins of vegetable or animal origin, P. Chaleyer, of P. Chaleyer, Inc.; oil of Siberian fir needles, R. Daggett, of George Lueders & Co., and oil of geranium reunion, E. Langenau, of Fritzsche Brothers, Inc.

Also linalool from bois de rose Brazilian, A. Fiore, of Givaudan-Delawanna, Inc.; phenyl propyl alcohol, aldehyde C-12 lauric and aldehyde C-12 MNA, L. Hediger, of Trubek Laboratories; oil of cinnamon leaf, H. Schwarz, Norda Essential Oil & Chemical Company; oil of clove leaf, G. V. Branigan, of Ungerer & Co., and oil weed American, A. Warren, of Dodge & Olcott, Inc.

"Problems on Oil of Coriander" will be discussed by A. H. Downey, of Magnus, Mabee & Reynard, Inc. E. T. Theimer, of van Ameringen-Haebler, Inc., will talk on a "Proposed Study on Ionone and Methyl Ionone."

## AIChE Elects Chilton '51 President, Burt Vice-Pres.

Thomas H. Chilton, technical director of the development engineering division of E. I. duPont de Nemours & Co., Wilmington, Del., has been elected president of the American Institute of Chemical Engineers for 1951, according to an announcement made by the council of the institute which is now holding its forty-third annual meeting in Columbus, Ohio.

At the same time it was announced that the members had also, through their mail ballot, elected as vice-president William I. Burt, who is a vice-president of the B. F. Goodrich Chemical Company.

## Mobilization Congress Wed.

The National Association of Manufacturers will hold a mobilization congress of American industry December 6 to 8 at the Waldorf-Astoria hotel, New York.

# APMA Hears Call for Realism As Approach to Drug Problems

A realistic approach as a means toward more effective action on current problems in the pharmaceutical industry was the keynote struck by Howard B. Fonda, senior vice-president of Burroughs Wellcome & Co., and president of the American Pharmaceutical Manufacturers Association, at the midyear meeting of the organization last week at the Waldorf-Astoria hotel, New York.

While citing the legal, economic, social and scientific gains of the past forty years, he warned that the industry must not lull itself into "any false sense of security," adding that "a review of the past and analysis of trends emphasize without doubt that grim days are ahead."

"The past twenty years," Mr. Fonda pointed out, "have witnessed substantial revolutionary changes in the powers and functions of our federal government. The changes effected have threatened our system of free enterprise and our form of government itself. The powers of the states have been greatly impaired and our liberties endangered by the tendency toward a breakdown of representative government and by the partial destruction of self government due to the shift in power from the states to the federal government."

**Discusses Durham-Humphrey Bill**

The association president, touching on the proposed Durham-Humphrey Bill, noted that there were, at least, two provisions in the measure which were causing industry concern. He called one provision of the bill "prejudicial to the manufacturer" because it "transfers from him to the government the power of decision as to how his products will be marketed, thus placing in the hand of an administrator a fundamental control on a bureaucratic level." This control, he added, "is dangerous in that it could be grossly misused," and represents by itself "just one more step toward final and complete surrender of our free enterprise to bureaucratic control." Mr. Fonda also noted that the Durham-Humphrey Bill has another provision "that is alarming and that is not apparent in a casual reading of the bill, in that it represents a substantial step toward socialized medicine."

Assuring the membership that the APMA directors and officers are aware of their responsibilities and stand ready "to defend and maintain our present liberties and resist those changes that threaten to rob us of them," he warned that individual action was also needed, and called upon the industry as individuals to register its opinions with congress.

**NPA Viewed Favorably**

"The establishment of the National Production Authority," Mr. Fonda declared, "is viewed with general favor by industry which looks to this agency for guidance to the best way to serve the military and the country as a whole during the present critical period and the days ahead. The pharmaceutical industry is concerned with being properly represented on a high level by an exceptionally well qualified individual who, by training, experience and 'know how,' can best determine, interpret and coordinate the part we must play in the defense effort."

However, the APMA president pointed out that overtures from Washington as to advice and suggestions of possible candidates to represent the pharmaceutical industry have thus far not been forthcoming, although the association has already informed the NPA that it has a special defense committee which stands ready to consult with the government agency. He hoped that action on the matter would be taken soon "so as to avoid confusion and frustration and permit us to operate our business and know what is expected of us and what we can and can not do."

Dean Edward S. Mason, of the Harvard University Graduate School of Public Administration, speaking on" The Impact of the Defense Program on the American Economy," stated that neither the amount nor the rate of proposed military expenditures of $50,000,000,000 to $60,000,000,000 per year will be reached in the near future. He estimated that military spending "will not reach $30,000,000,000 during this fiscal year and will be hardly $30,000,000,000 in calendar 1951."

**Economic Picture Seen "Confused"**

He said that he saw the current economic picture as a "confused and confusing canvas on which both inflationary and deflationary forces are at work." The situation confronting us now is essentially different from that we faced in June, 1940, Dean Mason emphasized, in that we were operating close to full employment at the outbreak of the Korean crisis and that we have been living for ten years under conditions of high output and employment with recurrent shortages and persistent inflationary pressures.

Formulation of a tax policy is our first step, he declared. "Without a proper tax policy there is no managing the wage-price level," he warned, "and we shall be inevitably driven forward on a wave of inflation of thorough-going direct controls."

Arthur J. White, regional director of the wage and hour and public contracts division of the Department of Labor, speaking on the "Fair Labor Standards Act and the Walsh-Healey Public Contracts Act," explained that only those manufacturers or dealers who own, operate or maintain factories or stores regularly producing or handling commodities covered by contract are eligible to submit bids.

**Resolution on Drug Act Adopted**

At its November 27 session, APMA went on record as opposing the provision in the Durham-Humphrey Bill now before congress which would amend the federal food, drug, and cosmetic act. As stated in the resolution, which was unaminously adopted, the provision was opposed because "(1) it is not necessary and (2) it is basically unsound in the circumstances." However, the resolution assured association cooperation "in a due revision of the prescription drug law contained in section 503 (b), in order that it may better accomplish its objective to protect public health."

Speaking on "Research Progress in Antibiotics" at the afternoon session on November 28, Dr. Perrin H. Long, of the department of preventive medicine, Johns Hopkins University School of Medicine, cited the introduction of terramycin as the "outstanding event of 1950 in this field." While noting that it was still too early to assess critically the value of terramycin, he pointed out that it showed promise in the treatment of a wide range of diseases.

"While no new important uses have been found for penicillin," he declared, "opinion has tended to crystallize in relation to the advantages of various preparations of penicillin, and in respect to how they best can be administered to the patient." Dr. Long said that there is some feeling among research men that "streptomycin should be limited to the treatment of tuberculosis" because of the resistance of a number of strains of infecting micro-organisms to the antibiotic.

He pointed out that much progress has been made with aureomycin," citing, in particular, the improved preparation of the antibotic or oral use and the satisfactory use of aureomycin-sodium glycinate derivative intravenously. He added

—Continued on page 58

### *Elected Rheem Director*

Clifford V. Coons, vice-president in charge of sales for Rheem Manufacturing Company, New York, has been elected a director of the concern. Mr. Coons fills a new position on the Rheem board, created by an increase in the number of directors from seven to eight. He joined the company in 1934 at Richmond, Calif., becoming purchasing agent at the South Gate (Los Angeles) plant in 1935 and plant manager at Houston, Tex., in 1938. Mr. Coons moved to Rheem's New York offices in 1940 as container sales manager, and was named general sales manager shortly therefater.

## N. E. Weed Control Parley Set Jan. 3-5

The Northeastern Weed Control Conference will hold its fifth annual meeting January 3 to 5 at the New Yorker hotel, New York.

The meeting will get under way on January 3 with a general session in the grand ballroom. H. L. Yowell, of Esso Laboratories and president of the conference, will preside during the morning, while S. M. Raleigh, of Pennsylvania State College and vice-president of the organization, will chair the afternoon proceedings.

Papers to be presented during the morning are as follows:—"The 1951 Model Weed Man," R. L. Lovvorn, head of the USDA division of weed investigations; "Absorption of Some New Herbicides by Plants," P. J. Linder, Bureau of Plant Industry; "Theories on the Herbicidal Action of Petroleum Herbicides," S. L. Dallyn and R. D. Sweet, Cornell University, and "The Comparative Herbicidal Effectiveness of Certain Glycol Esters and Amine Salts of 2,4-D and 2,4,5-T," W. R. Mulliosn, L. L. Coulter and K. C. Barrons, Dow Chemical Company.

Papers to be presented during the afternoon are:—"Some Theoretical and Practical Aspects of Weed Control," C. L. Hamner, Michigan State College; "Some Effects of Concentration of 2,4-D and pH of Solution upon Plant Responses," H. E. Clark, Rutgers University; "A Field Technic for Screening New Herbicides," R. J. Aldrich, field agent, USDA; "Some New Non-Volatile 2,4-D Diesters," L. J. King and J. A. Kramer, Boyce Thompson Institute; "Progress Report on Effectiveness of Polyborchlorate," F. S. Spon, Pacific Coast Borax Company; "Activators which Considerably Ennance the Defoliant and the Phytotoic Properties of Endothal," Nathaniel Tischler, C. P. Quimba and Walter Bejuki, Sharples Chemicals, Inc., and "Chloro IPC," C. D. Witman and W. F. Newton, Pittsburgh Plate Glass Company.

**Symposium Scheduled**

A symposium on pre-emergence weed control, with W. C. Jacob, secretary-treasurer of the conference, serving as chairman, will conclude the afternoon's proceedings. Participating in the discussion will be C. E. Minarik, of Camp Detrick, Frederick, Md.; G. F. Warren, of Purdue University, and R. D. Sweet, of Cornell University.

Activities on January 4 will consist of four concurrent, day long meetings. Section A, meeting in the East room, will be concerned with horticultural crops. Section B, in parlor G, will discuss agronomic crops and turf. Section C, in the North ballroom, will be concerned with control of woody plants and special problems. Section D, meeting in parlor F, will deal with public health.

John R. Havis, of Virginia Polytechnic Institute, will preside at the morning session of section A, while E. M. Rahn, of the University of Delaware, will act as chairman in the afternoon. Section B will be chaired by C. E. Phillips, of the University of Delaware, in the morning, and by John Van Geluwe in the afternoon. Section C will have Dale E. Wolf, of E. I. duPont de Nemours & Co., as its chairman, while section D will have A. H. Fletcher, of the New Jersey State Department of Health, presiding.

Morning and afternoon sessions on January 5, which will be held in parlor G, will hear the report of the coordinating committee. R. D. Sweet, of Cornell University, will serve as chairman at both sessions. The luncheon and business meeting of the conference will be held January 4 at 12:15 p.m. in the grand ballroom.

## Dr. Cook, 30 Years USP Revision Chairman, Honored

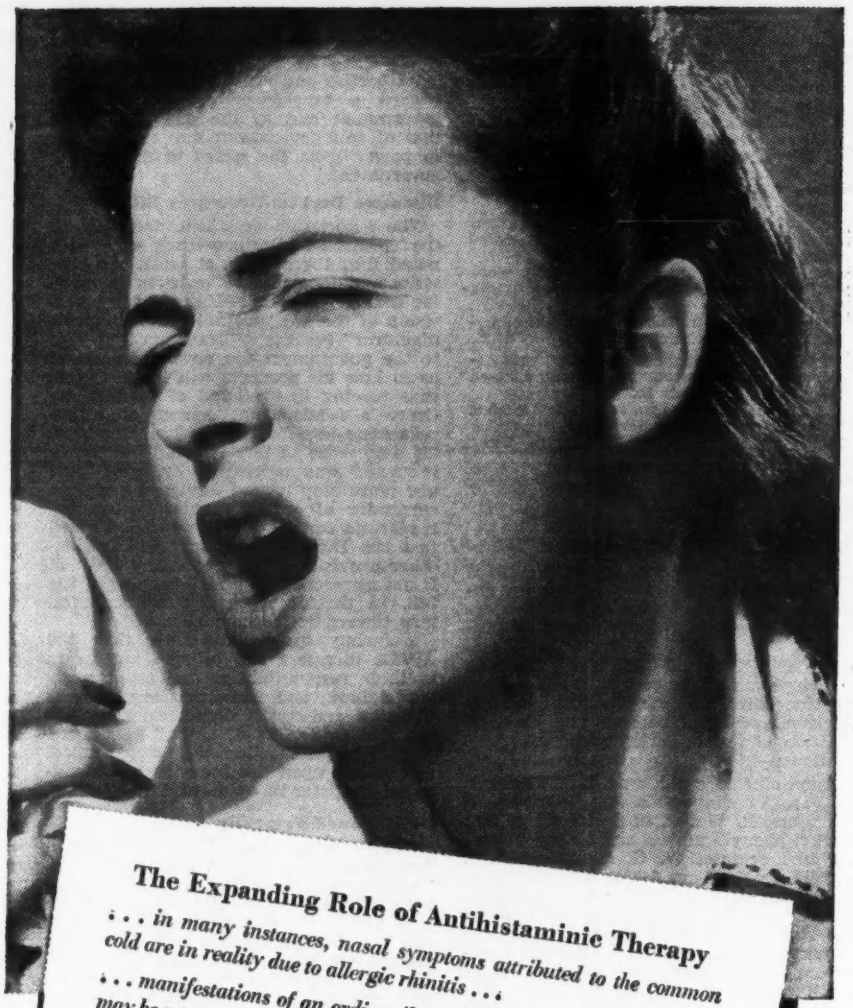
Resolutions passed at the recent decennial meeting of the United States Pharmacopoeial convention were presented to Dr. E. Fullerton Cook, retired USP revision chairman, at a luncheon given at the Waldorf-Astoria hotel, New York on November 28. The luncheon was attended by most of the members of the board which served during the 1940-50 decade as well as many of the present board.

Dr. Cook was associated with the Pharmacopeia for fifty years. He served as assistant to the chairman of the USP committee of revision for almost twenty years and, himself, held the chairmanship from 1920 to 1950. The resolutions of the convention were presented to Dr. Cook in the form of an embossed and illuminated framed scroll.

# *Build Your New*
# "Important-All-Year" Product with this Favorite Antihistaminic

IF YOU ARE considering marketing your own antihistaminic preparation you will prefer to employ an antihistamine which has *proved* its outstanding advantages. The material of your choice must combine *exceptionally high antihistaminic potency with a high index of safety.* Its properties must assure you that it will be *effective in a large variety* of allergic conditions. Also, the antihistaminic substance must be *extremely versatile,* suitable for formulation in any desired pharmaceutical form.

... And all of these qualities must have been established in laboratory, clinic, and everyday practice!



**The Expanding Role of Antihistaminic Therapy**

*"... in many instances, nasal symptoms attributed to the common cold are in reality due to allergic rhinitis ..."*

*"... manifestations of an ordinarily nontroublesome allergic rhinitis may be aggravated by a superimposed common cold ..."*

Clinicians' statements, such as these, serve to emphasize the growing year 'round importance of antihistaminic therapy. Whether intended for the relief of allergic symptoms in *perennial* or in *seasonal* allergies—antihistaminic preparations have become one of the most important product groups in the pharmaceutical field.

## That is why you will prefer Pyrilamine Maleate Merck

***(Formerly called Pyranisamine Maleate)***

**PROVED** highly effective and safe in extensive clinical tests.
**DESCRIBED** in the published reports of many allergists.
**PRESCRIBED** by thousands of physicians from coast to coast.
**FAVORED** by physicians and patients in every season of the year.

**Wide Range of Process Data Available**

Pyrilamine Maleate Merck offers you the ideal means of marketing effective antihistaminic products under your own label. Process information is available on Pyrilamine Maleate preparations in any of the following forms:

*Tablets (including combinations with A.P.C.)*
*Syrups • Creams*
*Lotions (e.g., calamine-base type)*
*Ointments (petrolatum or water-soluble base)*
*Ophthalmic Solutions • Nasal Solutions*
*Injectable Solutions*

We shall be pleased to furnish samples for experimental use and to assist you in any technical problems involved.

**MERCK & CO., INC.**
*Manufacturing Chemists*
RAHWAY, NEW JERSEY

MERCK

# Pyrilamine Maleate Merck

*(Formerly called Pyranisamine Maleate)*

# Current Market Quotations

## Chemicals and Related Materials

### December 1, 1950

**Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4. The figures in the two columns do not represent bid and asked prices nor a range over the week. They are the quotations prevailing on the date above, on the basis of differences in one or more of these factors:—Quantity, quality, locality, individual supplier's views.**

**All matters under this heading fully protected by copyright.**



## A

Acacia (see Gum, arabic).

Acenaphthene, below 92.5 C., m.p., dms., works lb 40 - —
above 92.5 C. m.p. dms., works. lb. 50 - —

Acetaldehyde 99% dms., c.l., frt. equald lb. .12 - —
l.c.l., frt. equald lb. .12¾ - —
tanks, frt. equald lb. .10 - —

Acetaldol (see Aldol).

Acetamide (tech. fib., dms lb 45 —

Acetanilide tech. bbls., c.l., dlvd lb. .24½- —
l.c.l., ton lots lb. .25½- —
smaller lots lb. .28½- —
USP bbls. 2,000-lb. lots lb 50 —
smaller lots lb 56 —

Acetic anhydride dms. c.l. frt alld E lb. .15 - —
l.c.l., frt. alld. E lb. .15½- —
tanks, frt. alld. E lb. .13½- —

Acetoacetanilide bbls., dlvd lb. .69½- —
fib. dms., c.l., dlvd lb. 68½- —
l.c.l., dlvd lb. .69½- —

Acetoacetorthoanisidide, fib. dms., works, 500 lbs. or more lb 1.50 —
smaller lots same basis lb 1.75 —

Acetoacetorthochloranilide, bbls., dlvd lb 1.15 - —
fib. dms., c.l. dlvd lb 1.14 - —
l.c.l., dlvd lb 1.15 - —

Acetoacetorthotoluidide, bbls., dlvd lb. 74½- —
fib. dms., c.l., dlvd lb. 73½- —
l.c.l., dlvd lb. 74½- —

Acetoacetparaphenetidide, dms., 500 lbs. or more, works lb. 1.65 - —
smaller lots same basis lb 1.90 —

Acetone, CP, dms., c.l., dlvd lb. .10¼- .11¾
l.c.l., dlvd lb. .11 - .12¼
tanks, dlvd lb. .08½- .10
Methyl (see M).

Acetonitrile, dms., c.l., works lb 43 - —
l.c.l. works lb 45 - —

Acetophenetidin USP, bbls., works, frt. equald lb 1.10 1.33

Acetophenone, cns., dms lb. 1.35 - 1.85
tech. l.c.l. dms., works lb 75 —

Acetyltributyl citrate, tech. dms lb. .35½- —
smaller pkgs lb. .71 - —

Acetyltriethyl citrate, tech. dms lb. .35½- —
smaller pkgs lb. .71 - —

Acid, abietic com'l, dms., c.l., works lb. 10 —
l.c.l., works lb 1145 —
cryst., dms., c.l., works lb. 05½- —
l.c.l. works lb 06 .08½

Acetic, com'l or redist., 28%, bbls. 100 lbs. 3.90 - —
56%, bbls. 100 lbs. 6.50 - —
70%, bbls. 100 lbs. 7.75 - —
80%, bbls. 100 lbs. 8.60 - —
glacial, synthetic, CP, dms., works 100 lbs. 13.50 - —
cbys., works 100 lbs. 18.50 - 22.50
USP, cbys., works 100 lbs. 14.00 - 18.00
tech., dms., c.l., works 100 lbs. 9.50 - —
l.c.l., works 100 lbs. 10.00 - —
tanks, works 100 lbs. 8.00 - 9.00

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, USP special, bbls., makers primary distrib., point of ship't, 1,000-lb. lots lb. .57 - .60
standard, fine, cryst., gran., (30-40 mesh) powd. (80 mesh) bbls same basis lb. .52 - .55

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis

Aconitic 5,000 lbs. 1 shipt. dms lb. 49 —
smaller lots dms lb 49½ .54½

Adipic fib dms., works lb 26½ —

Aminoacetic NF bbls., frt. adjusted lb 1.50 1.75

Anthranilic resub. bbls lb 2.10 —
tech., bbls., frt. equald lb. 1.21 - —

Arsenous (tech (see Arsenic, white).
USP (see Arsenic trioxide)

Ascorbic, USP, dms., 25-50 kilo lots kilo. 24.50 - —
10-kilo lots kilo. 24.85 - —
5-kilo lots kilo. 25.25 - —
bots., kilo lots kilo. 25.50 - —
500-gram lots kilo. 26.00 - —

Battery cbys. c.l., E. works 100 lbs. 2.00 - —
l.c.l., E., works 100 lbs. 2.30 - —

Benzoic (tech bbls. dms., 100 lbs or more lb. .40 - .43
USP, bbls., dms., 100 lbs. up lb. .50 - .54

Betahydroxynaphthoic bbls. works lb. 1.29 1.39

Boric, tech. 99½%, cryst., bgs., c.l., works ton. 118.25 - —
ton lots ex whse, N. Y. or Chi ton. 164.00 - —
less ton lots, same basis. ton. 169.00 - —
bbls., c.l., works ton. 142.75 - —
ton lots, ex whse., N. Y. or Chi ton. 188.50 - —
less ton lots, same basis. ton. 193.50 - —
bulk, c.l., works ton. 114.25 - —
gran., bgs., c.l., works ton. 93.25 - —
ton lots, ex whse., N. Y. or Chi ton. 139.00 - —
less ton lots, same basis. ton. 144.00 - —
bbls., c.l., works ton. 117.75 - —
ton lots, ex whse., N. Y. or Chi ton. 163.50 - —
less ton lots, same basis. ton. 168.50 - —
bulk, c.l., works ton. 89.25 - —

Acid, boric, powd., bgs., c.l., works. ton. 98.25 - —
ton lots, ex whse., N. Y. or Chi ton. 144.00 - —
less ton lots, same basis. ton. 149.00 - —
bbls., c.l., works ton. 122.75 - —
ton lots, ex whse., N. Y. or Chi ton. 168.50 - —
less ton lots, same basis. ton. 173.50 - —
bulk, c.l., works ton. 94.25 - —
USP $25 per ton higher.

Broenner's, bbls lb 1.34 —

Butyric, 99%, dms. c.l. works lb .36½- —
l.c.l., works lb. 37 —
tankcars, works lb. .35 —

Cacodylic bots lb 10.00 11.00

Camphoric, natural, dms lb. 4.00 - 4.75
synth. dms lb 4.00 4.75

Capric, 90%, dms., l.c.l. lb. .47 —

Caprylic, 90%, dms., l.c.l. lb. .47 - —

Castor oil, split, dms lb. .31½ .32

Cassello, dms., frt. alld lb. 1.44 - —

Chicago, bbls., frt. alld lb 2.92 —

Chlorosulphonic, dms., c.l., works lb. .036 - —
l.c.l., works lb. .041 - —
tanks, works lb. .031 - —

Chromic 99½-99¾% dms. c.l works lb. .27 - —
l.c.l., works lb. .27½- .28¼
USP (see Chromium trioxide)

Cinnamic, refd. bots lb 2.50 4.00

Citric, anhyd. gran., fine gran. dms., c.l lb 26½ —
10,000 lbs. 1 ship't lb 27 —
smaller lots lb 27½ —
kgs lb 28½ —
Anhydrous citric acid powder ½c per lb. higher.

USP cryst., dms., c.l. lb 27½ —
10,000 lbs., 1 ship't lb 28 —
smaller lots lb 28½ —
kgs lb 29½ —
gran., fine gran., dms., c.l. lb 24½ —
10,000 lbs., 1 ship't lb 25 —
smaller lots lb 25½ —
kgs lb 26¼ —
USP citric acid powder ½c per lb higher.

Cleve's, mixed, bls lb 72 —

Coconut oil, dist., dms lb. .26½- .27¾
double dist., dms lb. .28½- .29¾

Cottonseed oil, dist., dms lb. .16 - .17¼
double dist., dms lb. .16½- .17¾

Cresylic, dom., coaltar, 50% above 207°C, non-ret dms., c.l., frt. equaled gal. 1.06 1.11
l.c.l., non-ret. dms., same basis lb. 1.09 1.14
ret. dms., c.l., same basis gal. .96 - —
l.c.l., same basis gal. .99 - —

Acid, cresylic, dom. coaltar, 50% above 207°C, tanks, same basis gal. .95 - 1.00
204° to 207° C, non-ret. dms., c.l., same basis gal. 1.06 - 1.11
l.c.l., same basis gal. 1.09 - 1.14
ret. dms. c.l. same basis, gal. 1.01 - —
l.c.l., same basis... gal. 1.04 - —
tanks, same basis gal. .95 - 1.00

petroleum, 193° to 213°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .71 - —
l.c.l., same basis gal. .73 - .75
tanks, same basis gal. .58 - —
200° C to 222° C, tanks, Wilmington, Cal gal. .58 - .63
211° C to 236° C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .63 - —
l.c.l., same basis... gal. .65 - .67
tanks, same basis gal. .50 - —
220° C to 242° C, tanks, Wilmington, Cal gal. .50 - .53
237° C to 265° C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .59 - —
l.c.l., same basis... gal. .61 - .63
tanks, same basis gal. .46 - —
245° C to 298° C, tanks, Wilmington, Cal gal. .46 - —
imported, coaltar 75% at 215°C or over, dms., c.l.f. gal. 1.22½- 1.28

Crotonic, fib dms. works lb 29 —

Cyanoacetic, tech. bbls lb 90 1.25

Desoxycholic, bots lb. 22.00 - 25.00

Dichlorophenoxyacetic, (see "D" 2, 4-D)

Diethylbarbituric (see Barbital).

Diglycolic, bgs., works lb .14 —

Ethylthexoic, dms., c.l., works lb. .33 - —
l.c.l., works lb. .33½- —
tanks, works lb. .31½- —

F, crude, paste, bbls., works lb. 1.32 - —

Folic bots. fib cens. kilo or more gram 2.00 —

Formic, 85%, cbys. c.l. works lb. 13 13½
l.c.l., works lb. 13½ 14
90%, chys., c.l. works lb. 13½ 14
l.c.l., works lb 14 14½

Fumaric, tech., bbls., dms lb. .32 - .33

Gallic, NF VII, bbls. 1,000-lb. lots lb. 1.80 —
smaller lots lb. 1.83 1.87
technical, bbls., 1,000-lb. lots lb. 1.58 - —
smaller lots lb. 1.61 - 1.63

Gamma dry ground bbls., frt. alld lb. 1.37 - —
paste, bbls., frt. alld lb. 1.32 - —

Gluconic, tech., 50%, bots lb. .23 - .31
dms lb 14 —
kgs lb .16 —

Glutamic, dacvo, 99% fiber dms. 100 lb. lots, works lb. 2.45 - —
25 lb. lots lb. 2.60 - —

Acid, glycerophosphoric, 35%, dms., works lb. 2.25 - 2.35
Glycolic (see Acid, hydroxyacetic).
H, 100% basis, bbls., works lb. .80 - —
Hydriodic, 45-47%, cbys lb 2.57 2.59
57%, cbys lb 2.86 —
Hydrobromic, medicinal, 48%, cbys., dlvd, E lb. .38 —
tech., 48%, cbys., dlvd E lb. .34 .36
Hydrochloric (see Acid, muriatic).
Hydrocyanic, cyls., works lb. 1.00 - —
dilute, NF 2%, 5-lb. bots lb. .37 - —
Hydrofluoric, anhyd., cyls., works lb. .19 .19½
tanks, works lb. .18 - —
30%, wood or rubber, dms., works lb. .09½- .09
70%, steel dms., works lb. .12¼- .14¼
Hydrofluosilicic 30-35%, bbls., works lb. .07 - —
Hydroxyacetic, tech., 70%, bbls., non-return., Phila lb. 084 - —
tanks, Belle, W. Va., 100% basis lb. 065 - —
Hypophosphorous, purif., 50%, cbys. lb 1.30 1.32
USP, cbys lb. 76 —
J, bbls., works 100% basis lb 2.50 2.85
Koch, bbls., frt. alld lb. .64 - —
L, bbls., frt. alld lb. 1.25 - —
Lactic edible 50% bbls., 20 or more lb. .18½- —
smaller lots lb. .19 - —
80%, bbls. 20 bbls. or more, lb. 285 .338
plastic grade 50% bbls., 20 or more lb. 19¾- —
10 or less lb .20¾- —
80%, bbls., 5 or less lb. 3495 .3548
tech., 22% bbls., r.l., works 100 lbs. 5.80 —
l.c.l., works 100 lbs. 6.20 - —
cbys., works 100 lbs. 6.70 - —
44%, bbls., c.l., works 100 lbs. 10.95 - —
l.c.l., bbls., works 100 lbs. 11.35 - —
cbys., works 100 lbs. 11.85 - —
NF, 65% cbys lb .69 .72
Laurent's, bbls lb. .60 .67
Lauric, 90-95% dms lb. .32½- .33
60% dms lb. .29½- .30
Linseed oil, reg., dist., dms lb. .2110- .2140
water, white, dms lb. .2410- .2440
Maleic, powd., dms lb. .32 - .33
Anhydride (see M).
Malic, dms lb 45 —
Mandelic, NF dms. 1,000-lb. lots lb. 1.85 —
smaller lots lb. 1.90 - 2.10
Metanilic dms., works lb. .57 - —
Methacrylic, dms., c.l., and truck-loads, works lb. .76 - —
less than truckload, works lb. 76½- .80
Molybdic, dms. 85%-82% works lb. .88 —
Monochloroacetic purified, flake, 99%, dms lb. .22½- .24¼
tech., flake, 96-97%, dms lb. .19 - .21
Muriatic, 18°, cbys., c.l., works 100 lbs. 2.05 - 2.20
l.c.l., works 100 lbs. 2.35 - 2.40
tanks, works ton. 22.00 - 23.00
20°, cbys., c.l., works 100 lbs. 2.30 - 2.55
l.c.l., works 100 lbs. 2.60 - 2.65
tanks, works ton. 25.00 - —
22°, cbys., c.l., works 100 lbs. 2.80 - 2.90
l.c.l., works 100 lbs. 3.10 - 3.90
tanks, works ton. 28.00 - 30.00
CP, USP, consumers, cbys., extra c.l., frt. equald lb. .07¾ —
l.c.l., same basis lb. 09¼ - 09¾
5 pint bottles extra, cs., c.l., frt. equald lb. .12¾ - —
l.c.l., same basis lb. 14¼ - .15¼
Acid, muriatic, CP, USP, prices to dealers 1½c. per lb. less.
Myristic, dms., l.c.l lb. .38 - —
Naphthenic 220-230 acidity, dms., works lb. .14 - —
tanks, works lb. .12 - —
230-240 acidity, dms., works lb. .22 - —
tanks, works lb. .19 - —
Naphthol(1)-4-sulphonic (see Acid, Winther's) Neville and
Naphthol (1)-5-sulphonic (see Acid L)
Naphthol(1)-5-sulphonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma)
(2)-7-Sulphonic,2-amino (see Acid, J).
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed)
Naphthylamine(1)-3-sulphonic (see Acid, Laurent's).
(2)-6-sulphonic (see Acid, Broenner's)
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).
Neville and Winther's, dms., frt. alld lb. .97 - —
Nicotinic, USP, dms., frt adjusted kilo. 8.00 8.30
Nicotinic amide (see Nicotinamide).
Nitric, 36° cbys., c.l., E. works 100 lbs. 5.00 —
l.c.l., E. works 100 lbs. 5.40 6.10
38°, cbys. c.l., E. works 100 lbs. 5.50 —
l.c.l., E. works 100 lbs. 5.90 6.60
40°, cbys., c.l., E. works 100 lbs. 6.00 6.50
l.c.l., E. works 100 lbs. 6.40 7.10
42° cbys., c.l., E. works 100 lbs. 6.50 7.00
l.c.l., E works 100 lbs. 6.90 7.60
CP, NF, consumers, cbys., extra c.l., frt. equald lb. .11½ —
l.c.l., same basis lb. .13 .13½
5 pint bottles extra, cs., c.l., frt. equald lb. .15½ —
l.c.l. same basis lb. .17 .18
Acid, nitric, CP, NF, prices to dealers 1½c. per lb. less.

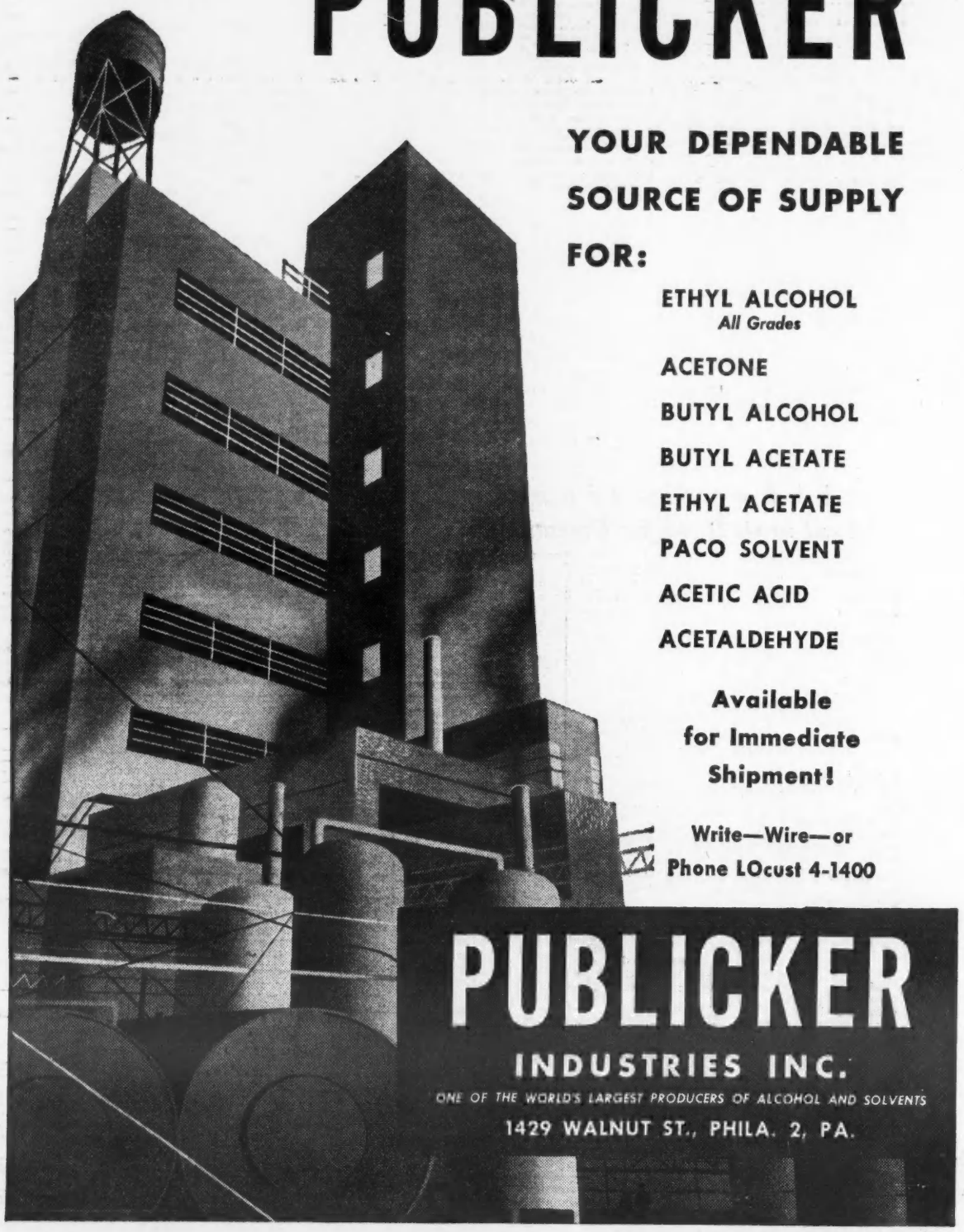
## *Abbreviations*
### *Used in OPD Market Quotations*

| | | | | | |
|---|---|---|---|---|---|
| ACS | American Chemical Society | dist. | distilled | neut. | neutral |
| | | dextro | dextrorotatory | NF | National Formulary |
| alld. | allowed | distr. | distributor | | |
| ammo. | ammonia | djns. | demijohns | nom. | nominal |
| amorph. | amorphous | dlvd. | delivered | No. | number |
| anhyd. | anhydrous | dms. | drums | ord. | ordinary |
| a.p.a. | available phosphoric acid | dom. | domestic | oz. | ounce |
| | | E. | east | Pac. | Pacific |
| artif. | artificial | e.p. | end point | pf. | proof |
| ASTM. | American Society for Testing Materials | equald. | equalized | phos. | phosphate |
| | | F. | fahrenheit | photo. | photographic |
| | | ferment. | fermentation | pkgs. | packages |
| Be. | Baume | ffa. | free fatty acid | powd. | powdered |
| bgs. | bags | ffc. | free from chlorine | precip. | precipitated |
| bbls. | barrels | | | prod. | producer |
| bls. | bales | fib. | fiber | pt. | point |
| bots. | bottles | f.o.b. | free on board | pulv. | pulverized |
| b.p. | boiling point | F.P.A. | free of prussic acid | purif. | purified |
| b.p.l. | bone phosphate of lime | | | redist. | redistilled |
| | | frt. | freight | refd. | refined |
| b.r. | boiling range | fus. | fused | refy. | refinery |
| bxs. | boxes | gal. | gallon | reg. | regular |
| C. | centigrade | gran. | granular | resub. | resublimed |
| cbys. | carboys | grd. | ground | ret. | returnable |
| CD | completely denatured | i.&a. | iron and aluminum | SD. | specially denatured |
| c.i.f. | cost, insurance, freight | i.b.p. | initial boiling point | s.d. | single distilled |
| | | | | S. E. | southeast |
| cks. | casks | imp. | imported | secs. | seconds |
| c.l. | car lots | incl. | included | s.g. | specific gravity |
| cns | cans | indust. | industrial | ship't | shipment |
| col. | color | | | solut. | solution |
| com'l | commercial | kgs | kegs | s.u. | standard unit |
| conc. | concentrated | lacq. | lacquer | synth. | synthetic |
| CP | chemically pure | lb. | pound | tech. | technical |
| cps. | centipoises | l.c.l. | less than car lots | USP. | U. S. Pharmacopoeia |
| cryst. | crystal | liq. | liquid | | |
| cs. | cases | m.a.p. | mixed anilin point | vis. | viscosity |
| cbns. | cartons | | | VM&P. | varnish makers & painters |
| cyls. | cylinders | min. | minimum | | |
| dbl. | double | m.p. | melting point | W. | west |
| denat. | denatured | N. | nitrogen | w.w. | water white |
| dest.-dist. | destructive-distilled | nat. | natural | whse. | warehouse |

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown, gives the price of 2,000 pounds of the material.

## Acid, Octoic—Alcohol, Phenylethyl

Acid, octoic (see Acid, ethylhexoic).
Oleic (see Oil red).
Oleum (see Acid, sulphuric, fuming).
Orthocresotinic, dms., ton lots, works lb. .52 - —
smaller lots, works lb. .54 - —
Oxalic, bbls., c.l., works lb. .16¼- —
10,000 lbs., works lb. .16½- —
smaller lots, works lb. .17½- —
Palm oil, white, dist., dms lb. .21¼- .21¾
Para-aminobenzoic, USP XIV, dms., 100 lbs. or more, works lb. 4.50 - 5.10
smaller lots, works lb. 4.85 - 5.30
technical, dms lb. 1.74 - —
Para-aminosalicylic, dms., 1,000-lb lots or more lb. 6.00 - 7.50
smaller lots lb. 6.05 - 7.80
Paramethylphenylcinchonic (see Neocinchophen).
Paranitrobenzoic, dms lb. .77 - —
Paratoluidinmetasulphonic, bbls., works lb. .92 - 1.04
Peanut oil, s.d., dms lb. .12¾ - .13¾
Perchloric 60%, chys., works lb. .58 .62
70-72%, chys., works lb. .61 .66
Phenylacetic, bots lb. 1.45 - 1.75
Phenylcinchoninic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).
Phosphoric, food grade, 75%, chys., c.l., works, frt. equald 100 lbs. 6.50 —
l.c.l., works, frt. alld 100 lbs. 7.00 - 7.50
tanks, works, frt. equald 100 lbs. 4.75 - —
NF, 85%, chys., c.l lb. .10½- —
For shipments in chys., add handling charges.
Picramic, ngs. lb. .65 - .70
Picric, NF, 300-lb. bbls lb. .50 - —
smaller lots, dms lb. .81 - .87
tech., bbls. lb. .32 - .33
Propionic, natural, dms., works. lb. .18 - —
tanks, works lb. .17 - —
synth., pure, dms., works lb. .21 - —
tanks, works lb. .19 - —
Pyrogallic, tech., bbls lb. 2.76 - 2.81
NF, cryst., dms lb. 3.25 - 3.30
Pyroligneous, dms. incl., l.c.l., works, South gal. .31 - —
whse. N. Y. C. gal. .43 - —
Ricinoleic (see Acid, castor oil, split).
S, bbls., works lb 2.97 - 3.00
Salicylic, crude, bbls lb. .28 - —
sublimed, tech., bbls., c.l. lb. .33 - —
l.c.l. lb. .40 - —
dyestuffs grade, bbls. lb. .34 - —
USP, cryst., bbls lb. .42 - —
powder, bbls. lb. .47 - —
Sebacic, purified, dms., c.l., works. lb. .62 - —
l.c.l., works lb. .64 - .68
Soybean oil, single, dist., dms lb. .17½- .18¾
double dist., dms lb. .18 - .19¼
Stearic, double pressed, bgs lb. .21 - .22¾
single-pressed, bgs lb. .20½- .21¾
triple-pressed, bgs lb. .23¼- .24
Succinic, purified, crys., bbls., works lb. .75 - —
tech., bbls., works lb. .65 - .75
Sulphanilic, tech., dms., c.s., frt. alld lb. .17 - —
l.c.l., frt. alld lb. .19 - —
Sulphuric, 60° Be, chys., c.l., works 100 lbs. 1.75 - —
l.c.l., works 100 lbs. 2.05 - 2.60
tanks, works ton 16.20 - 16.65
Sulphuric, 66° Be, chys., c.l., works 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.40 - 2.85
tanks, works ton 19.85 - 20.00
98%, tanks, works ton 21.00 - 21.30
CP, NF, consumers, chys., extra, c.l., works, frt. equald. lb. .07¾- —
l.c.l., same basis lb. .09¼- .09¾
5 pt. bottles extra, cs., c.l., works, frt. equald lb. .11¼- —
l.c.l., same basis lb. .12¾- .13¾
fuming, 20%, tanks, works ton 22.40 - —
acid sulphuric, CP, NF prices to dealers 1½c. per lb. less.
Tallow, dist., dms lb. .17 - .18¼
Tannic, tech., dms lb. No prices.
fluffy, bbls., 1,000-lb. lots lb. 1.59 - 1.60
smaller lots lb. 1.61 - 1.65
powder, bbls., 1,000-lb. lots lb. 1.50 - —
smaller lots lb 1.51 - 1.54
Tartaric, USP, dom., 230, 250-lb. dms., 10,000 lbs., 1 ship't. lb. .36 - —
smaller lots lb. .36½- —
100-lb. dms lb. .37½- —
small dms lb. .39½- .41½
imported, kgs. lb. .34 - .36
Thioglycolic, refined, bbls., chys., basis 100% lb 1.60 - 1.80
tech. bbls. chys. basis 100% lb 1.40 - —
Tobias, bbls., frt. alld lb. .69 - —
Toluenesulphonic, dms., c.l., works lb. .18½- —
l.c.l., works lb. .20 - —
tanks, works lb. .17 - —
Trichloroacetic, bots lb 2.00 2.50
Trichlorophenoxyacetic (see 2,4,5-T)
Tungstic, tech., kgs., works lb 2.30 2.40
Undecylenic, dms lb. 1.00 - 1.25
Aconite leaves, bls lb. .40 - .42
Root, bls lb .48 .52
Aconitine, amorph., mild, bots oz. 27.50 - 32.50
cryst., potent, bots oz. 78.00 - 85.00
Acrolein, dms., works lb. .50 - —
Acrylonitrile, dms., c.l., works lb. .40½- —
l.c.l., works lb. .41 - .60
tanks, works lb. .39 - —
Adeps lanae (see Lanolin)
Adonis vernalis herb, bls lb. .24 - .25
Agar, USP, Kobe, No. 1 strip, bls lb. 1.25 - 1.30
powdered, 30 mesh, fib. dms lb 1.65 - —
Agaric, white, bls lb. 1.60 - 1.75
Agrimony herb, bls lb. .35 - .40
Alanine, dextro-laevo, dms., works, lb 8.50 - 11.00
Albumen (eggs), edible, flake, bbls. lb. 1.40 - 1.42
powd., bbls lb. 1.44 - 1.46
tech., cryst., bbls lb. .77 - .80
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., l.c.l lb. .67½- .72½
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd lb. .31¾- —
l.c.l., dlvd lb. .32½- —
tanks, dlvd. lb. .30 - —
Amyl, ex pentane dms. c.l., frt. alld. E. Miss. lb. .19¾- —
l.c.l., frt. alld. E. of Miss lb. .20¾- —
tanks, frt. alld. E. of Miss lb. .18 - —
(see also Fusel oil, ref.)
fermentation, refined, 126-132°C, dms., c.l., dlvd lb. .33¾- —
l.c.l., dlvd lb. .34¾- —
tanks, dlvd lb. .32 - —
128-132°C. dms. l.c.l. dlvd lb. .36½- —
ACS grade, dms. l.c.l., dlvd lb. .38½- —
Benzyl, NF, dms lb. .60 - .68
tech. dms. works, frt. equald. lb. 45 50
Butyl, fermentation, normal dms., c.l., frt. alld lb. .17¾- .32¼
l.c.l., frt. alld lb. .18¾- .33¼
tanks, frt. alld lb. .16 - .30½
synthetic, normal, dms. c.l., frt. alld lb. .16¼- —
l.c.l., frt. alld lb. .17¼- —
tanks, frt. alld lb. .14½- —
secondary, dms., c.l., frt. alld. lb. .11¾- .12¾
l.c.l., dlvd., frt. alld lb. .12½- .13½
tanks, dlvd., frt. alld lb. .10 - .11
tertiary, dms., c.l., frt. alld. lb. .13¾- —
l.c.l., frt. alld lb. .14½- —
tanks, frt. alld lb. .12 - —
Capryl, dms., c.l., works lb. .26½- —
l.c.l., works lb. .27½- —
tanks, works lb. .25 - —
Cetyl, dom., CP., fiber ctns., 1,000 lbs lb. 1.50 - —
smaller lots lb. 1.55 - —
Cinnamic, bots. lb. 2.75 - 3.20
Denatured, CD12, CD13, CD14, dms., c.l., dlvd. E. of Miss. R gal. .79 - .96½
l.c.l., dlvd. E. of Miss. R. gal. .83 - 1.05½
tanks, dlvd. E. of Miss R gal. .67 - .84½
Tankcar sales require written authorization by Alcohol Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Miss. R gal. .69½- 1.01½
l.c.l., same basis gal. .73½- 1.10½
tanks, same basis gal. .57½- .89½
Tankcar sales require written authorization by Alcohol Tax Unit.
SD1, 190 pf., dms., c.l., dlvd. E. of Miss. R gal. .69½- 1.01½
l.c.l., same basis gal. .73½- 1.10½
tanks, same basis gal. .57½- .89½
SD2B, dms., c.l., E. of Miss. R. gal. .68 - 1.02½
l.c.l., same basis gal. .72 - 1.11½
tanks, same basis gal. .56 - .90½
SD3A, dms., c.l., E. of Miss. R. gal. .68 - 1.00½
l.c.l., same basis gal. .72 - 1.09½
tanks, same basis gal. .56 - .88½
SD23A, dms., c.l., E. of Miss. R. gal. .79½- .96½
l.c.l., same basis gal. .83½- 1.05½
tanks, same basis gal. .67½- .84½
SD23H, dms., c.l., E. of Miss. R. gal. .70 - .96½
l.c.l., same basis gal. .74 - 1.05½
tanks, same basis gal. .58 - .84½
SD27A, dms., c.l., E. of Miss. R. gal. 1.04 - —
l.c.l., same basis gal. 1.13 - —
tanks, same basis gal. .92 - —
SD30, dms., c.l., E. of Miss. R. gal. .76½- .98
l.c.l., same basis gal. .80½- 1.07
tanks, same basis gal. .64½- .86
SD35A, dms., c.l., E. of Miss. R. gal. .82½- 1.04
l.c.l., same basis gal. .86½- 1.13
tanks, same basis gal. .70½- .92
SD40, dms., c.l., E. of Miss. R. gal. .79 - 1.04
l.c.l., same basis gal. .83 - 1.13
tanks, same basis gal. .67 - .92
Diacetone, acetone free, dms., c.l., dlvd lb. .13¾- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13¼- —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Miss. R gal. 17.87 - 18.12
l.c.l., same basis gal. 17.91 - 18.21
tanks, same basis gal. 17.75 - 18.00
tax free, dms., c.l., dlvd. E. of Miss. R gal. .77 - 1.02
l.c.l., same basis gal. .81 - 1.11
tanks, same basis gal. .65 - .90
absolute, 200 pf., tax paid, dms., c.l., same basis gal. 18.77 - 19.02
l.c.l., same basis gal. 18.81 - 19.11
tanks, same basis gal. 18.65 - 18.90
Ethylbutyl, dms. c.l., works lb. .29½- —
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
Ethylhexyl, dms., c.l., dlvd lb. .29¼- —
l.c.l., dlvd lb. .30¼- —
tanks, dlvd lb. .27¾- —
Furfuryl, tech., cns., works lb. 30 - —
dms., c.l., works lb 21½- —
l.c.l. works lb 23 - —
tanks, works lb 18 —
Isoamyl (see Alcohol, amyl fermentation, refined)
Isobutyl, dms., c.l., dlvd lb. .14¾- —
l.c.l., works lb. .15¾- —
tanks, dlvd lb. .13 - —
Iso-octyl, dms., c.l., works lb 29¼- —
l.c.l., works lb 29¾- —
tanks, works lb. 26¼- —
Isopropyl, refd., 91%, dms., incl., c.l., dlvd gal. .49 - —
l.c.l., dlvd gal. .54 - —
tanks, dlvd gal. .37 - —
95%, dms. incl., c.l., dlvd gal. .50½- —
l.c.l., dlvd gal. .55½- —
tanks, dlvd gal. .38½- —
99%, dms., incl., c.l., dlvd gal. .52 - —
l.c.l., dlvd gal. .57 - —
tanks, dlvd gal. .40 - —
Methyl (see Methanol)
Methylamyl (see Carbinol, methyl-isobutyl)
Nonyl (see Trimethylhexanol)
Octyl, perfumer's grade, bots lb 1.70 3.25
technical (see Octanol, normal)
Pantothenyl (see Panthenol)
Phenylethyl, dms lb. 1.60 - 1.95

PUBLICKER

YOUR DEPENDABLE SOURCE OF SUPPLY FOR:

ETHYL ALCOHOL
*All Grades*

ACETONE

BUTYL ALCOHOL

BUTYL ACETATE

ETHYL ACETATE

PACO SOLVENT

ACETIC ACID

ACETALDEHYDE

Available for Immediate Shipment!

Write—Wire—or Phone LOcust 4-1400

PUBLICKER
INDUSTRIES INC.
ONE OF THE WORLD'S LARGEST PRODUCERS OF ALCOHOL AND SOLVENTS
1429 WALNUT ST., PHILA. 2, PA.

Alcohol, polyvinyl, type A, fiber-pack, Niagara Falls lb. .65 - .70
type B, fiber-pack, same basis lb. .60 - .68
Propyl, normal, dms, c.l., dlvd. lb. .10¾- —
l.c.l., dlvd lb. .11¾- —
tanks, dlvd lb. .09 - —
Salicyl (see Saligenin).
Tetrahydrofurfuryl cns, Waverly, N. Y lb. .47 - —
dms., Niagara Falls, N. Y lb. .40½- —
l.c.l., Waverly, N. Y lb. .42½- —
tanks, Niagara Falls, N. Y lb. .38 - —
Industrial grade, dms, c.l., Niagara Falls, N. Y lb. .29 - —
l.c.l., Waverly, N. Y lb. .30½- —
tanks, Niagara Falls, N. Y. lb. .26½- —
Aldol, 95%, dms., works lb. .15 - .16
denaturing grade dms gal. 1.33 - 1.48
Aldrin, 60% solut, dms., c.l., works, frt. alld lb. 1.06 - —
l.c.l., works, frt. alld lb. 1.20 - —
Aletris root, bgs lb. 1.75 - 1.90
Algin, bbls., fib. dms lb. .76 - 1.20
Alizarin (see Red, Alizarin)
Alkanet root, bgs lb. 35 - .40
Allethrin, 100% dms., 1 to 10 dm. lots lb. 45.00 - —
smaller lots, works lb. 50.00 - 55.00
solution, 20%, dms., 100 lb. lots, works lb 9.00 - —
10%, dms., works gal. 37.75 - —
2%, dms., works gal. 7.75 - —
Allspice, Jamaica (see Pimento)
Mexican, bgs., futures lb. .17½- .18
Allyl bromide cnys 5,000 lbs., works lb .99 —
smaller lots works lb 1.05 - 1.10
Allyl chloride, dms., c.l., dlvd lb. .16¾- —
l.c.l., dlvd lb. .17½- —
tanks, dlvd lb 15 —
Starch, solid, dms., works lb. .51 - —
solution, 40%, dms., works lb. .25½- —
Aloe, Cape, cs lb. .38 - .39
powdered, cs lb. .48 - .49
Curacao, bgs lb .35 .36
Socotrine bgs lb. .35 - .36
Aloin, USP bbls., dms, kgs lb 3.50 - —
Alphanaphthol, bbls., frt. alld lb. .77 - —
Alphanaphthylamine, bbls. frt. alld. lb. .45 - —
Alphanaphthylthiourea 93-98%, fib. dms., works, frt. alld lb. 2.00 - 2.40
Alphanitronaphthalene, bbls., frt. alld lb. .37 - —
Alphapicoline ret dms, c.l., works, frt. equald lb. .39½- —
l.c.l., works, frt. equald lb. .40 - —
Alphapinene tanks South works gal. No prices
Alphaterpineol dms, t.c.l. dlvd E. lb 17 —
Alphatocopherol, bots kilo. 350.00 - —
Acetate, bots kilo. 350.00 - —
Althea root NF peeled bls lb .30 - .40
Alum, ammonium, gran., bbls., works 100 lbs 3.30 - —
lump, bbls., works 100 lbs 4.05 - —
powd., bbls., works 100 lbs 4.20 - —
USP, burnt, bbls lb .20 - .21
hydrous, bbls lb .07¾- .08
Potassium, gran., bbls., works 100 lbs. 4.05 - —
lump, bbls., works 100 lbs 4.30 - —
powd, bbls, works 100 lbs 4.45 - —
USP, burnt, bbls lb. .20 - .21
hydrous bbls lb. .07¾- .08
Potash-chrome, dms. lb. .17 - —
Soda, bbls., c.l works 100 lbs 3.25 - —
l.c.l., works 100 lbs. 4.25 - 5.50
Alumina calcined bgs, c.l. works lb. .03½- .05½
crystalline (see Aluminum oxide)
Aluminum acetate, basic solution, 24%, bbls., l.c.l. works lb. .11 - —
20% bbls, l.c.l. works lb. .10 - —
Chloride anhyd, com'l dms., c.l., works lb. .13 - .15
l.c.l., works lb. .13½- .15½
cryst, com'l, dms., c.l. works lb. .0650- —
l.c.l., works lb. .0690- —
NF, gran., dms, works lb. .27 - .28
solution 32° cbys, c.l. works lb 03¼- —
l.c.l., works lb. 04 - —
Fluoride, tech anhyd bbls, c.l., works lb. .10 —
l.c.l., works lb. .11 - .13
Formate, basic solution cbys., c.l lb. 09½- —
l.c.l. works lb. .10 - —
Hydrate, heavy bgs., c.l., frt. equald ton 50.00 - 54.00
l.c.l. works ton 72.00 - 86.00
light, bgs. dlvd lb .17 —
Hydroxide, gel, pharmaceutical, 14-15% $Al_2O_3$, fib dms., works lb. 21¼- —
contract, works lb. 20¼- —
9-9½% $Al_2O_3$, fib dms., works lb. 18¼- —
contract, works lb 17¼- —
dried USP XII fib dms, works, lb. 79½- —
contract, works lb 76½- —
powder, tech, (see Aluminum hydrate).
Laurate, precip, bbls lb. .38½- —
Linoleate, solid, dms, frt alld lb. .39½
Metal, 99% +, ingots, 10,000 lbs. lb. .19 - —
pigs, 10,000 lbs lb. .18 - —
Naphthenate, liquid, 1.7%, frt. alld lb. .26 - —
Oleate, dms, precip lb .35¼- —
Oxide, amorphous (see Alumina, calcined).
crystalline, flour, classified, 8-240 mesh, dms., frt alld lb. .14 - .15
kgs, ton, frt alld lb. 12½ —
smaller lots frt alld lb 13 .18
280-400 mesh dms, frt alld lb 32 .33
kgs., frt. alld lb 31 —
500 mesh dms frt alld lb 35 .37
kgs, frt alld lb 34 —
600 mesh dms frt alld. lb .51 - .53
kgs, frt alld lb 50 —
Aluminum oxide flour prices W of Denver ¾c per lb higher.
optical, floated, kgs, dlvd lb 36 .38
unclassified dms frt alld. lb. 16 - .17
kgs frt alld lb 15 —
Paste, lining, extra fine, dms lb. .59½- —
standard, dms lb. .41 - —
Powder, lining, extra fine, dms lb. .97½- —
standard, dms lb. .68½- —
rubber comp., dms lb. .58½- —
unpolished, standard, dms lb. .54½- —
varnish standard, dms lb. .59 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c per lb for 100-lb dm., 1½c per lb for 50-lb dm, 3c per lb for 10-lb can, and 5c to 12c per lb for smaller containers. Deduct 1c per lb for single shipment of 400 to 1,499 lbs, 2c for 1,500 to 4,999 lbs., 3c for 5,000 to 29,999 lbs., and 4c for 30,000 lbs or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over.

Resinate, precip., dms., frt. alld. lb. .25¼- —

Aluminum stearate, dibasic, ctns., c.l. lb. .38 - —
l.c.l. lb. .39 - —
monobasic, ctns., c.l. lb. .38 - —
l.c.l. lb. .39 - —
tribasic, ctns., c.l. lb. .38 - —
l.c.l. lb. .39 - —
Sulphate, com'l, bulk, c.l., works, 100 lbs. 1.65 - —
ground, bgs, works ton 33.00 - —
lump, bgs., works ton 36.00 - —
Iron-free, ogs, c.l., works, frt. equald 100 lbs. 3.25 - —
l.c.l., works 100 lbs. 3.65 - —
NF, gran., dms, works lb. .27 - .28
powd., dms., works lb. .32 - .33
Trihydrate, heavy (see Aluminum hydrate).
Ambergris, gray, bots oz. 8.00 - 10.00
Aminoazotoluene bbls lb. 1.03 - —
Aminomethylpropanol, cns., dms., works lb. .60 - —
Aminoethylethanolamine, dms., c.l., works lb. .42 - —
l.c.l., works lb. .42½- —
tanks works lb. .40 - —
Aminophylline, USP, 100-lb. dms. lb. 5.35 - 5.85
Aminopyrine, USP bots, dms fb 6.00 - 6.15
Ammonia, anhydrous fertilizer, tanks, works ton. 74.00 - 75.00
pure, cyls., extra, zone 1 lb. .17 - .17½
2 lb. .19 - .19½
3 lb. .21 - 21½
4 lb. .16 - 19½
refrigeration, tanks, works ton. 76.50 - 77.50
Aqua (29.4% $NH_3$), dms., c.l., works 100 lbs. 3.10 - —
l.c.l., works 100 lbs. 3.50 - —
tanks, works, anhyd. basis ton. 80.00 - 81.00
Ammoniac gum (see Gum ammoniac)
Sal, gray, bgs, c.l., works, frt. equald 100 lbs. 7.00 - —
l.c.l., same basis 100 lbs. 7.40 - —
white gran, ogs, c.l. works 100 lbs. 4.60 - —
t.c.l. works 100 lbs 6.25 - —

Ammoniacal liquor, tankcars, works, anhyd basis ton 75.00 - 80.00
Ammonium acetate, purified, dms lb. .39 - .40
reagent, jars lb. .61 - .63
Benzoate, USP, dms., kgs., 4,000 lbs. frt alld lb. .80 - —
smaller lots, frt alld lb. .81 - 1.08
Biborate, bbls., c.l., works ton. 309.50 - —
ton lots, ex whse ton. 372.50 - —
less ton lots, ex whse ton. 377.50 - —
Bicarbonate, dms., c.l., works lb. .05½- —
l.c.l., works lb. .06 - —
Bichromate, bbls., works lb. .33 - .36
Bifluoride, dms., dlvd lb. .18¾- .19¾
Bromide, gran., NF, bbls lb. .38 - .39
dms, lb. .39 - .42
Powdered ammonium bromide 10c. per lb higher.
Carbonate, USP, lump, powd., dms lb. .20 - .21
Chloride, tech (see Ammoniac sal)
USP, gran, bbls, dms lb 18 .19
Citrate, dibasic, bbls lb 75 —
dms. lb 80 .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia aqua)
Hypophosphite NF, dms lb 2.40 —
Iodide, NF, jars lb. 4.01 - 4.11
Linoleate, plastic, 80% dms., works lb 40½- —
kgs., works lb 42½- —
25% dms., frt. alld. lb 21½- —
tech., bbls., works lb .37 - —
dms., works lb .39 - —
Molybdate, chemical grade, bbls., kgs lb .85 - —
metal grade, kgs lb. .90 - —
tech grade, bbls, kgs lb .80 - —
Nitrate, fertilizer grade, Canadian eastern, 32.5% N, bgs., c.l., shipping point ton. 63.00 - —
western 33.5% N, bgs., del., f.o.b. cars, Los Angeles ton. 71.55 - —

## Alcohol, Polyvinyl—Ammonium Thiocyanate

Ammonium nitrate, fertilizer grade, domestic, bgs., western works, ton 58.00 - —
with dolomite, 20.5% N, bgs., Hopewell, Va ton 46.00 - —
Oleate, dms, precip lb 23¼- —
Oxalate, fine gran, dms lb. .25 .31
Pentaborate, gran, bbls., c.l. works ton. 219.50 - —
ton lots, ex whse ton. 282.50 - —
less ton lots, ex whse ton. 287.50 - —
Ammonium pentaborate powder, $10 per ton higher.
Perchlorate, kgs, works lb .50 .75
Persulphate, kgs lb 25½ 28¼
Phosphate, com'l, bgs., c.l., works, lb. .08¼- —
l.c.l., works lb. .08¾- —
dibasic, NF, V bbls, dms lb 40 —
tech., bgs., c.l., works lb 06 —
t.c.l., works lb 08½ —
Salicylate, NF, dms., kgs lb. 1.24 - 1.25
Silicofluoride, dms, works lb 12 .13
Sulphamate, bbls, dms, works lb 18 .20
Sulphate, coke-oven, bulk, producing ovens ton. 32.00 - 37.00
converters', Gulf and Atlantic ports ton. 45.00 - 49.50
Sulphide, liquid, 40-45% basis, 100% dms, c.l. works, lb. 10¼- —
t.c.l. works lb. 15½- —
tanks, dlvd or frt alld lb. 09 —
Sulphocyanide, tech (see Ammonium thiocyanate)
Thiocyanate, tech., bbls., c.l. works lb. .15 - .18
t.c.l., works lb. .16 - .20

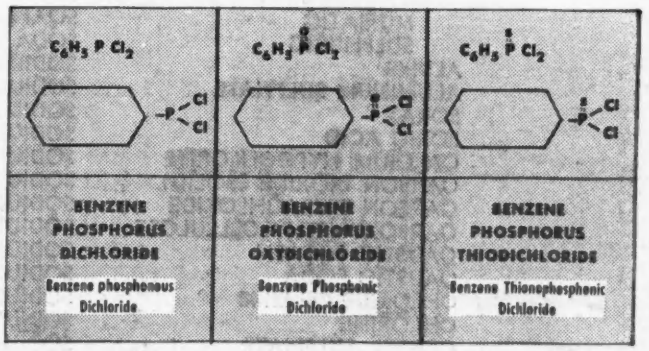
pointing the way to successful new developments

3

IMPORTANT INTERMEDIATES NOW AVAILABLE IN COMMERCIAL QUANTITIES

The commercial availability of this group of organic phosphorus chlorides will be of special interest to research chemists. Already these three chemicals have proved useful as intermediates in organic synthesis for applications in insecticides, plasticizers, high polymers, lacquer formulations, antifoaming agents, and others.

Victor organic phosphorus chlorides may prove successful in one of your research projects. It will pay you to explore their possibilities! Additional information on Victor organic phosphorus chlorides and their derivatives, as well as experimental samples are available. Check and clip the coupon to your letterhead or write:




another group of VERSATILE VICTOR CHEMICALS

VICTOR CHEMICAL WORKS

**VICTOR CHEMICAL WORKS**
141 W. JACKSON BLVD., CHICAGO 4, ILL.
A. R. MAAS CHEMICAL CO., Division
4570 Ardine Street, South Gate, California

MAIL THIS COUPON FOR MORE INFORMATION AND SAMPLES

PHYSICAL PROPERTIES

| Please Check INFORMATION | SAMPLES | | B.p. | $n_D^{25°}$ | Sp.g. |
|---|---|---|---|---|---|
| ☐ | ☐ | Benzene Phosphorus Dichloride | 225° | 1.5850 | 1.319 @ 20°C |
| ☐ | ☐ | Benzene Phosphorus Oxydichloride | 259° | 1.5580 | 1.375 @ 26°C |
| ☐ | ☐ | Benzene Phosphorus Thiodichloride | 285° @ 130 mm | 1.6210 | 1.376 @ 13°C |

Name _____ Position _____
Company _____
Address _____
City _____ Zone _____ State _____

## Ammonium Thioglycollate—Bismuth Subsalicylate

Ammonium thioglycollate, commercial, 100% basis, cbys lb 1.40 - 1.60
highly purified, same basis lb 1.70 - 1.90
Thiosulphate cryst. jars works lb. .32 - —
Amphetamine citrate dextro bots lb.36.00 - —
dextro-laevo dms lb 6.50 - —
Hydrochloride, dextro, dibasic bots lb.36.00 - —
monobasic bots lb.34.00 - —
dextro-laevo dms lb 6.50 - —
Phosphate dextro dibasic bots. lb 36.00 - —
dextro-laevo dibasic, dms lb. 6.50 - —
monobasic, dms lb. 6.25 - —
Sulphate dextro dms lb.36.00 - —
dextro-laevo dms lb 6.50 - —
Amyl acetate ex fusel oil, tech., dms., c.l., dlvd lb. .24¾- .29¾
l.c.l., dlvd lb. .25¾- .30¾
tanks, dlvd lb. .23 - .28
ex pentane, dms., c.l., frt. alld. E. of Miss. R lb. .19¾- —
l.c.l., same basis lb. .20¾- —
tanks, same basis lb. .18 - —
Alcohol (see Alcohol amyl).
Butyrate, dms lb .90 1.00
Cinnamic, aldehyde, dms lb. 1.60 - 2.05
Nitrite USP bots lb 1.75 1.83
Salicylate, cns., dms lb. .80 - .85
Anethol, NF, cns., dms lb. 1.18 - 1.40
Angelica root, dom. bls lb .65 .70
imported, bls lb. .75 - .85
Angostura bark, bls lb. .48 - .50
Aniline oil, dms., c.l., works, frt. alld lb. .17 - .17½
l.c.l., works, frt. alld lb. .18 - .18½
tanks, works, frt. alld lb. .18 - —
Salt, dms., frt. alld lb. .28 - —

Anise, Argentine, bgs lb. No stocks.
Chinese, star, bgs lb. .23 - .24
Cyprus, ogs lb. .20 .20½
Czech, bgs lb. .15 - .15½
Mexican, bgs lb. .16½- .17
Spanish, bgs lb. .17 - .17½
Turkish, bgs lb. .14¾- .15
Anisic aldehyde, bots., dms lb. 2.00 2.45
Annatto powder, dms lb. .24 - .25
Seed, bgs lb. .16 - .19
Anthracene, 80-85%, bbls., works lb. 1.10 - —
90%, bbls., works lb. 1.25 - —
Anthraquinone, 99.5%, bbls., frt. alld lb. .80 - .83
Antimony butter (see Antimony trichloride)
Metal, bulk, c.l., mines lb. .32 - —
cases, c.l., mines lb. .32½- —
Oxide, bgs., c.l., frt. alld lb. .30 - —
l.c.l., frt. alld lb. .31 - —
Trichloride, pails, works lb. .34 - .36
solution, cbys lb. .33¼- .34
Sulphide, 62-64%, bgs. frt. alld., dlvd lb. .24 - .24½
Antimony potassium tartrate (see Tartar emetic).
Antipyrene, USP, dms lb 2.35 2.45
Apomorphine, USP, bots. oz. 23.20 -23.70
Archil extract, bbls lb No stocks.
Areca nuts, powd., bbls lb. .18 - .19
Arecoline hydrobromide, NF, bots. oz. 5.00 - 5.75
Arginine hydrochloride, laevo, dms. kilo. 70.00 -90.00
Argols, min. 50%, bgs., shipment ports per 100 kilos (100% purity) 17.00 - —
Arnica, flowers, bls lb. .45 - .50
root, bls lb 1.45 —
Arrowroot, powd., bgs lb. .14 - .16
Arsenic, metal, lump, bbls., prompt shipt lb .80 .90
Sulphide, yellow, bbls lb No stocks.
Trioxide, USP, dms lb. .46 - —
White, powd., bbls., c.l., dlvd lb. .06 - —
l.c.l., dlvd lb. .07 - .08

Asafetida, cs lb. .32 - .35
powd., bbls., dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.).
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.940.00 -960.00
No. 2, c.l. (20 tons), mines ton.485.00 -492.00
Run-of-mine, c.l. (20 tons), mines ton.400.00 - —
fiber, 3K, c.l. (20 tons), mines ton.313.00 - —
3R, c.l. (20 tons), mines ton.267.00 - —
3T, c.l. (20 tons), mines ton.249.50 - —
3Z, c.l. (20 tons), mines ton.231.00 - —
4K, c.l. (20 tons), mines ton.124.50 - —
4M, c.l. (20 tons), mines ton.124.00 - —
4T, c.l. (20 tons), mines ton.111.50 -141.00
4Z, c.l. (20 tons), mines ton.111.50 - —
5D, c.l. (20 tons), mines ton.88.00 - —
5K, c.l. (20 tons), mines ton.88.00 - —
5M, c.l. (20 tons), mines ton.84.00 - —
5R, c.l. (20 tons), mines ton.78.50 -79.00
6D, c.l. (30 tons), mines ton.58.00 -59.00
7D, c.l. 30 tons), mines ton.52.00 -52.50
7F, c.l. (30 tons), mines ton.49.00 -49.50
7H, c.l. (30 tons), mines ton.41.50 -42.00
7K, c.l. (30 tons), mines ton.35.00 -35.50
7M, c.l. (30 tons), mines ton.30.50 -31.00
7R, c.l. (30 tons), mines ton.29.50 -30.00
7T, c.l. (30 tons), mines ton.28.00 -28.50
7RF, c.l (30 tons), mines ton.30.50 -31.00
7TF, c.l (30 tons), mines ton.30.50 -31.00
8S, c.l. (30 tons), mines ton.19.00 -27.00

Prices quoted above are in U. S. funds. Add $4 per ton for l.c.l. lots.

Asphaltum, cut-back, tanks, tank wagon, refinery gal. .06 - —
Emulsion, tanks, tank wagon, refinery gal. .09½- .10
Gilsonite, brilliant black, selects, 270°-295° F fusing point, c.l., bgs., f.o.b. Colo mines. ton.37.00 - —
seconds, 300°-390° F. fusing point not uniform, c.l., bgs., Colo. mines ton.34.00 - —
jet, c.l., bgs., Colo. mines ton.34.00 - —

Asphaltum, manjak, No. 10, crude, dms., works lb. .06½- —
Steam-rfd., less than 80 penetration, tanks tankwagon refinery ton.22.00 - —
80-300 penetration tanks, tank-wagon, refinery ton.21.00 - —
Atropine, USP, bots oz. 9.75 -10.00
Sulphate, USP, bots oz. 5.75 - 6.35

## B

Bacitracin, wholesalers, unlabeled, topical, 2,000 units vial. .42 - —
10,000 units vial. .80 - —
50,000 units vial. 2.88 - —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45
Barbasco root (see Cube root).
Barberry, root bark, bgs lb. .40 - .45
tree bark, bgs lb. .40 - .45
Barbital, USP, 100-lb. dms lb. 4.50 - —
Sodium, USP, dms lb. 4.75 - 4.77
Barium carbonate precip., bgs., 10 tons and up, works ton.80.00 -85.00
smaller lots, works ton.90.00 -95.00
Chlorate, kgs., works lb. .30 - .35
Chloride, NF, cryst., dms lb. .17 - .18
tech., crystals bgs., c.l., works. ton.100.00 - —
l.c.l., works ton.110.00 - —
Chromate, bgs. frt. equald lb. .31½- .32
Dioxide, dms., works lb. .12 - —
Hydrate, crystals, bgs. lb. .09 .09½
Hydroxide, anhyd., bbls., works lb. .19 - —
Iodide, bots lb. 6.14 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .11½- —
l.c.l. works lb .13 - —
Oxide, grd., dms., c.l., works lb. .11 - —
l.c.l. works lb 11½ - —
Peroxide (see Dioxide).
Stearate, ctns., c.l. lb. .42 - .43
smaller lots lb. .43 - .44
Sulphate tech. (see Barytes and Blanc fixe)
X-ray, bbls. lb 13 - .13½
Sulphide, dms., c.l., works ton 55.00 - —
l.c.l., works ton 70.00 - —
Barium-potassium chromate, dms. c.l., frt. alld lb 20 - —
l.c.l., works lb 21 - —
tech., bgs., c.l., works, frt. equald ton.90.00 - —
l.c.l., works. ton.100.00 - —
Baryte ore, approx. 94% $BaSO_4$, bulk, mines ton 9.40 -12.50
Barytes, water-grd., paper bgs., c.l. St. Louis ton.37.60 -37.85
ex whse., N. Y. ton.53.45 -61.75
Southern off-color, bgs., mines ton 19.00 —
95.75% bgs. mines ton.20.00 —
Bauxite, bulk, mines ton 8.50 -10.00
Bay leaves (see Laurel leaves)
Belladonna leaf, bls lb. .50 - .55
Root, bls lb. .40 - .41
Bentonite, 200 mesh, bgs., works ton.12.00 —
Benzaldehyde, NF, dms lb. .70 - .75
tech., cbys., dms lb. .47 - .52
Benzal chloride, cbys., works lb. .22 - .23½
Benzene (see Benzol).
Hexachloride, 99% gamma isomer (see Lindane).
tech., bgs., dms., c.l., works, gamma unit lb. .02 - —
l.c.l., works, unit lb. .0210- —
gamma, 50% dust, dry, distributors, dms., c.l., dlvd., gamma unit lb. .02¾- —
l.c.l., dlvd., gamma unit lb. .0295- —
wet, distributors, dms., c.l., dlvd., gamma unit lb. .03¼- —
l.c.l., dlvd., gamma unit lb. .0335- —
Benzidine base, bbls lb 1.02 —
Hydrochloride, bbls., frt. alld lb. .85 - —
Benzocaine, dms. lb. 3.50 - 3.62
Benzol, pure, nitration, tanks, works, Bethlehem, Pa gal. .31 - —
Birmingham district gal. .30 - —
Chicago district gal. .30 - —
Cleveland district gal. .30 - —
Geneva, Utah gal. .30 - —
Johnstown, Pa gal. .30 - —
Lackawanna, N. Y. gal. .32 - —
Lone Star, Texas gal. .32 - —
Lorain, Ohio gal. .30 - —
Minaqua, Colo gal. .30 - —
Philadelphia, Pa gal. .30 - —
Pittsburgh district gal. .30 - —
Sparrows Point, Md gal. .32 - —
Syracuse, N. Y. gal. .30 - —
Terre Haute, Ind gal. .30 - —
Wyandotte, Mich gal. .30 - —
Youngstown, Ohio gal. .30 - —
Benzophenone, dms lb. 1.30 - 1.60
Benzotrichloride, cbys., frt. equald, lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. eq lb. .20½ .21
l.c.l., same basis lb. .21½ .22
Peroxide, pure, fib. ctns., works. lb. .90 1.05
Benzyl acetate, f.f.c., cns., dms lb. .65 - 1.05
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms lb. .80 - —
Chloride, tech., cbys., c.l., works, frt. equald lb. .19 .19½
l.c.l., same basis lb 20 .20½
high grade ex. tugner.
Cinnamate, cns. lb. 3.00 - 4.00
Formate, cns. lb. 1.60 - 2.10
Propionate, bots lb 1.35 - 1.65
Salicylate, bots lb. 1.65 - 1.85
Benzylidinacetone, bots lb 1.80 - 2.45
Benzylisoeugenol, bots lb. 8.90 9.50
Berberine, bisulphate, cns lb.35.00 -36.25
Hydrochloride, bots lb.35.00 -36.25
Sulphate, cns lb.35.00 -36.25
Berberis root, bls lb .35 .40
Betagammapicoline, 5°, dms., c.l., works lb. .29½- —
l.c.l., works lb. .30 - —
Betamethylnaphthalene, 32°C. m.p., dms., works lb .90 - —
Betanaphthol, resublimed, dms., works lb. .77 - —
tech., bbls., c.l., works lb. .30½- —
l.c.l., works lb. .32½- —
Benzoate fib dms., works lb 1.70 - —
Salicylate, dms. lb 5.00 - —
Betanaphthylamine, tech., bbls., works lb. .90 - —
Betaphenylethylamine, dms., works, 1,000-lb. lots lb 1.25 - —
smaller lots lb. 1.60 - —
Betapicolin, 98%, dms., works lb. .95 - —
Beth root, bls lb .45 .50
Biotin, cryst. gram.10.00 - —
Bismuth chloride, jars lb. 5.11 - —
Hydroxide, dms lb. 4.65 - —
Metal, bxs., ton lots lb. 2.25 - —
Nitrate, cryst., dms lb. 2.17 - —
Oxide, anhydrous, dms lb. 4.47 - 4.85
Oxychloride, dms lb. 4.32 - 4.37
Phenolsulphonate, fib. dms lb. 5.22 - —
Subcarbonate, USP, dms lb. 3.20 - —
Subgallate, NF, fib. dms lb. 3.15 - —
Subiodide, fib. dms lb. 5.37 - —
Subnitrate, NF, dms lb. 2.65 - —
Subsalicylate, USP dms lb. 3.50 - —


# MERCHANTS CHEMICAL COMPANY INC.

60 EAST 42nd STREET NEW YORK 17, N. Y.

AURORA, Ill.
APPLETON, Wis.
ALBUQUERQUE
CHICAGO
CINCINNATI
DENVER
DES MOINES
LOUISVILLE
MILWAUKEE
MINNEAPOLIS
OMAHA

*DISTRIBUTORS OF INDUSTRIAL CHEMICALS FOR OVER 25 YEARS*

Prompt delivery from warehouse stocks of the following chemicals:

ACIDS
BORIC
CHROMIC
MURIATIC
SULPHURIC
ALUMS
ALUMINUM SULPHATE
BORAX
BORIC ACID
CALCIUM HYPOCHLORITE
CARBON DIOXIDE (SOLID)
CARBON TETRACHLORIDE
CARBOXYMETHYLCELLULOSE
CAUSTIC POTASH
CAUSTIC SODA
CHLORIDE OF LIME
CHLORINE
COPPER SULPHATE
EPSOM SALTS
ETHYLENE DICHLORIDE
FORMALDEHYDE
GLYCERINE
HYDROGEN PEROXIDE
IRON CHROMITE
MURIATE OF POTASH
NAPHTHALENE
ORTHODICHLOROBENZENE
PARADICHLOROBENZENE
PERCHLORETHYLENE
POTASSIUM BICHROMATE
POTASSIUM PERMANGANATE
PROPYLENE GLYCOL
SOAPS
SODA ASH
SODIUM BICARBONATE
SODIUM BISULPHATE
SODIUM BISULPHITE
SODIUM BICHROMATE
SODIUM CHROMATE
SODIUM HYDROSULFITE
SODIUM HYPOSULFITE
SODIUM METASILICATE
SODIUM NITRATE
SODIUM ORTHOSILICATE
SODIUM PERBORATE
SODIUM PHOSPHATES, All types
SODIUM SILICATE
SODIUM SULPHIDE
SODIUM SULPHATE
SODIUM SULPHITE
SODIUM SESQUICARBONATE
STEARATES
SULPHUR
SYNTHETIC DETERGENTS
TRICHLORETHYLENE
TRISODIUM PHOSPHATE
WETTING AGENTS
ZINC SULPHATE

**SERVICE** **QUALITY**

ALSO A COMPLETE LINE OF LAUNDRY & DRY CLEANING SUPPLIES

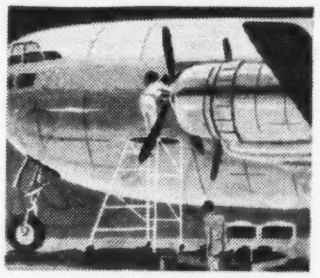
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Black, acetylene, bgs., c.l., works lb. .15 - —
cs., l.c.l., ship't point lb. .19 - .21
Bone, bgs. bbls. l.c.l. dlvd lb 14½ 22½
Carload price ½c. per lb. less. Deliveries to the Pacific Coast ex dock or whse. 1½c per lb higher
Carbon, channel, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works lb. .0740- —
l.c.l., dlvd. or whse lb. .1225- —
uncompressed, regular, bgs., c.l., works lb. .0950- —
bgs., ctns., l.c.l., dlvd or whse lb. .1550- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb. .10 - —
high modulus, bgs., c.l., works. lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing, bgs., c.l., works lb. .04 - —
ctns., l.c.l., whse lb. .06 - —
very fine, bgs., c.l., works lb. .08 - —
l.c.l., dlvd., or whse lb. .1250- —
Charcoal (see C).
Graphite (see G)
Iron oxide, synthetic bgs., c.l., works lb. .11 - —
l.c.l., works lb. .11¼ - —
Lamp, bgs., c.l., works lb. .077 - .33
Mineral, bgs. works lb 0160 0675
Black ash (see Barium sulphide)
Blackberry bark of root, bls lb. .30 - .32
root, bls lb. .12 - .15
Black dyes (see Dyes)
Black haw, root bark, bls lb 65 - 75
Tree bark, bls lb. .30 - .33
Black Indian hemp root, bls lb. .50 - .58
Blanc fixe, dry, by-product, bgs., c.l., works ton.85.00 - —
l.c.l., works ton.95.00 - —
direct process, bgs., c.l., works ton.90.00 - —
l.c.l., works ton.120.00 - —
N. Y. whse ton.120.00 -140.00
bbls., c.l., works ton.95.00 - —
l.c.l., works ton.120.00 -140.00
N. Y. whse ton.120.00 -140.00
pulp, 66⅔% bbls. c.l. works ton.69.00 - —
l.c.l., same basis ton 75.00 - —
Bleaching powder, dms. c.l. works. 100 lbs 5.00 - —
l.c.l., works 100 lbs. 6.00 - —
Blood, dried, 15-16½% ammo., bgs. unit-ton. 9.00 - —
high-grade, unground, 16-17% ammon., bulk, Chicago unit-ton. 9.00 - —
soluble, bgs., cs. lb. .17 - .19
l.c.l. lb. .18 - .25
Bloodroot, bls lb. .50 - .63
Blue, alkali, dry, bbls., dlvd. N of Tenn and N.C., E of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 1.90 - —
Toner bbls. litho flushed, same basis lb 1.05 —
Celestial, bbls. same basis lb 15 .16
Chinese, bbls., same basis lb. .42 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
imitation (see Blue, ultramarine)
Copper-phthalocyanine, full strength, bbls., same basis lb. 3.75 - 3.85
80%, bbls., same basis lb 3.00 3.40
Iron (see Blue, Chinese, Milori, Potash, Prussian, and Soda)
Methyl violet toner, bbls., same basis lb 4.20 - —
Milori, bbls., same basis lb. .42 - —
Peacock, fugitive, 100% color strength, same basis lb 60 .79
Permanent toner, green shade, molybdic, bbls., same basis lb 3.75 —
tungstic lb 4.00 —
Potash, CP, bbls, same basis lb 51 —
Prussian, bbls., same basis lb. .42 - —
soluble, bbls., same basis lb. .42 - —
Soda, C.P., bronze, bbls., same basis lb. .42 - —
Ultramarine, cobalt type, dry or pulp, bbls. same basis lb .25 .26½
jobbing type, dry, bbls., same basis lb 14 —
regular types, dry or pulp, bbls., same basis lb. .20 - .30½
Victoria toner, molybdic, bbls lb 3.75 —
Tungstic, bbls lb 3.75 —
Violet toner, molybdic, bbls same basis lb 1.24 —
Tungstic, kgs. same basis lb 2.60 2.70
Blue dry colors, dlvd prices ½c higher Ala, Fla., Ga., La (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago
Blue dyes are listed under Dyes
Blueflag, root, bls lb. .50 - .55
Bluestone (see Copper sulphate)
Blue vitriol (see Copper sulphate)
Boldo leaves, bls lb. .08 - .10
Bone, raw, bulk, Chicago ton 75.00 —
junk, bulk, same basis ton 50.00 52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works ton 62.50 - —
Chicago, works ton 62.50 - —
steamed, feeding grade, 1% ammon., 60% phos., E works ton.60.00 - —
Chicago, works ton.60.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E works ton 62.50 - —
Chicago, works ton 62.50 - —
Phosphate, defluorinated (see D) precipitated (see Calcium phosphate, tribasic precip).
Boneset, leaves, bls lb 15 - 16
Borage, flowers, bls lb 40 45
Borax, tech., anhydrous, bgs., c.l., works ton.74.50 - —
ton lots, ex whse., N. Y. or Chi ton.120.25 - —
less ton lots, same basis. ton.125.25 - —
bulk, c.l., works ton.67.50 - —
crystals, 99½%, bgs., c.l., works. ton.63.75 - —
ton lots, ex whse., N. Y. or Chi ton.109.50 - —
less ton lots, same basis. ton.114.50 - —
bbls., c.l., works ton.88.25 - —
ton lots, ex whse., N. Y. or Chi ton.134.00 - —
less ton lots, same basis. ton.139.00 - —
bulk, c.l., works ton.59.25 - —
granular, 99½%, bgs., c.l., works ton.37.75 - —
ton lots, ex whse., N. Y. or Chi ton.83.50 - —
less ton lots, same basis. ton.88.50 - —
Borax, tech., granular, 99½%, bbls., c.l., works ton.62.25 - —
ton lots, ex whse., N. Y. or Chi ton.106.00 - —
less ton lots, same basis. ton.113.00 - —
bulk, c.l., works ton.33.25 - —
powder, bgs., c.l., works ton.42.75 - —
ton lots, ex whse., N. Y. or Chi ton.88.50 - —
less ton lots, same basis. ton.93.50 - —
bbls., c.l., works ton.67.25 - —
ton lots, ex whse., N. Y. or Chi ton.113.50 - —
less ton lots, same basis. ton.118.00 - —
bulk, c.l., works ton.38.25 - —
Borax packed in kgs. is $45.50 per ton higher than borax packed in paper bgs. USP borax $15 per ton higher than tech.
Bordeaux mixture, bgs. c.l. works, frt. alld or nearest whse. point lb. .15 .21
l.c.l. same basis lb. .16 .23
Borneol, cns. lb. 2.25 2.50
Bornyl thiocyanoacetate (see isobornyl thiocyanoacetate)
Brazilwood extract (see Hypernic)
Brimstone (see Sulphur)
Bromine, purified, cs., c.l., frt. alld. E. of Rockies lb. .25 - —
1,000 lbs., same basis lb. .27 - —
dms., lead-lined, dlvd lb. .25 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.35 5.75
Bronze powder, aluminum (see A).
Gold, litho., cns., dms., works, lb. .50 - .60
moulding, cns. dms. works, lb. .80 - 1.00
printing ink, cns., dms., works lb .95 1.10
radiator, cns., dms., works, lb. .60 - .65
Broomtop, bls. lb. .30 - .35
Brown iron oxide, synth. bgs., l.c.l., works lb. .12 - .13
Oxide, metallic, bgs., works lb. .3075- —
Sap, crystals, works lb. .12 - —
powdered lb. .13 - —
Sienna, burnt, paper bgs., c.l., works lb. .04¼- .15¼
l.c.l., works lb. .04½- .15½
raw, paper bgs., c.l., works lb. .04½- .13
l.c.l., works lb. .04¾- .13¼
Umber, burnt, American, c.l., bbls., works lb. .05¼- .06½
l.c.l., bgs., works lb. .05½- .07½
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va. N.Y lb. .06¼- .08¼
l.c.l., works lb. .06½- .08½
raw, American bgs., same basis. lb. .04¼- .06½
Turkey type bgs., same basis. lb. .06½- .06¼
Vandyke, bbls. works lb. .11 - —
Brucine, cns., 100 ozs. oz. .33 - —
Sulphate, NF, cns. 100 ozs. oz. .30 - —
Bryonia, root, bls lb. .29 .35
Buchu, leaves, bls lb. .40 - .42
Buckthorn, bark, bls lb. .14 - .16
cut and sifted, bls lb. .20 - .22
Berries, bgs lb. .80 .90
Burdock, root, bls lb. .22 - .26
Butadiene, cyls., refinery lb. .21 —
tanks, same basis lb. .11½- —
Butane, indust., tanks, group 3 gal. .04 - —
Butternut, bark, bls lb. .25 .30
Butyl acetate, fermentation, normal, dms., c.l., same basis lb. .18¾- .34¼
l.c.l., same basis lb. .19¾- .33¼
tanks, same basis lb. .17 - .30½
synthetic, normal, dms., c.l., same basis lb. .16¼- —
l.c.l., same basis lb. .17¼- —
tanks, same basis lb. .14½- —
secondary, dms. c.l., same basis lb. .12¾- —
l.c.l., same basis lb. .13½- —
tanks, same basis lb. .11½- —
Alcohol (see Alcohol, butyl)
Aldehyde, dms., c.l., works lb. .19¾- —
l.c.l., works lb. .20¾- —
tanks, works lb. .18 - —
Chloride, dms., c.l., works lb. .41½ —
l.c.l., works lb. .42 - —
Ether (see Ether, butyl).
Lactate, dms. c.l. frt. alld. E. of Rockies lb. 42½- —
l.c.l. same basis lb. 43½- —
tanks, same basis lb. 41 —
Laurate, dms. works lb. 42 —
Methacrylate, normal, dms., less than truckload, works lb. .60 - —
Oleate, refd. dms. l.c.l. works lb. .52 —
Phenylacetate, dms. lb. 2.00 2.25
Phthalate (see Dibutyl phthalate).
Stearate, dms. c.l. frt. alld. E. of Rockies lb. .32½- —
l.c.l., same basis lb. .33½- —
Butylamine, dms., c.l., frt. alld. lb. .51½- —
l.c.l., same basis lb. .52½- —
tanks, same basis lb. .49¾- —
Butyric ether (see Ethyl butyrate).




# CRITICAL PLATING METALS CONSERVED

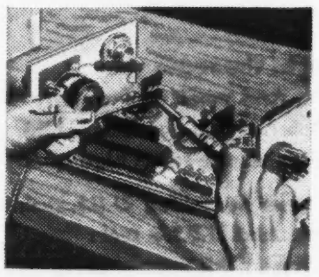
## B&A METAL FLUOBORATES HELP INCREASE PLATING OUTPUT AND CUT COSTS!

VERSATILE **B&A** FLUOBORATE ELECTROLYTES PRODUCE EVEN, FINE-GRAINED COATINGS QUICKLY, ECONOMICALLY



**Alloy Coating Formed in One Operation!**

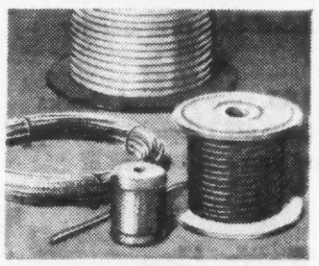
In plating airplane and heavy duty automobile bearings, B&A lead and tin fluoborate solutions produce an alloy coating in one operation that is harder, more wear-resistant than lead plate alone! This fluoborate alloy bath is also used to produce protective coatings on pistons, other engine parts... a 0.0002 in. deposit provides vital lubrication during break-in periods.



**Lead-Tin Alloy Makes Soldering Easy!**

B&A lead and tin fluoborate produce coatings of excellent solderability on radio or electrical parts where use of non-corrosive flux is desirable...with plated parts retaining these characteristics over long periods.

Where parts can be fused, the fluoborate alloy bath can also be used to deposit solder and thus eliminate costly, time-consuming hand soldering operations.



**Electroclad Wires Save Critical Metals**

Bi-metal wires—wires coated with tin, lead, nickel, lead-tin alloys, etc.—are replacing solid wire fabricated entirely of scarce metals. Needed lubrication properties for drawing are also imparted.

**Electroplaters find Fluoborates offer Fast, Easy, Economical Method that Saves Substantial Amounts of Tin, Copper, Cadmium... other metals**

THE STAND-OUT PERFORMANCE of B&A Metal Fluoborates in lead, tin, copper, and nickel plating operations is now enabling platers to increase production and, in many cases, effect real savings on metals in short supply.

THAT'S BECAUSE Baker & Adamson's Metal Fluoborates offer electroplaters an unusual combination of important advantages *not available in other plating agents.* Why not consider how important each one can be in terms of efficiency and economy in your operations, then contact your nearest B&A office today?

**9 *IMPORTANT ADVANTAGES INCREASE PLATING EFFICIENCY***

1 No dissolving necessary... supplied in concentrated solution form
2 Easier bath preparation
3 Stability of bath composition
4 Ease of control
5 Practically 100% anode and cathode efficiency
6 High conductivity
7 Good covering power
8 Fine-grained deposits of good color
9 Faster, high-speed operation

***Write Today!***

For detailed operating data, experimental samples or commercial quantities of lead, tin, copper, or nickel fluoborate solutions, write or phone nearest B&A office. When planning special operations, draw on the knowledge and experience of our technical specialists in setting up baths for test or full scale runs.

REAGENTS B&A STANDARD OF PURITY FINE CHEMICALS

**BAKER & ADAMSON *Fine Chemicals***
**GENERAL CHEMICAL DIVISION**
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.

*Offices:* Albany • Atlanta • Baltimore* • Birmingham* • Boston • Bridgeport* • Buffalo* • Charlotte* Chicago* • Cleveland* • Denver* • Detroit* • Houston* • Jacksonville • Los Angeles* • Minneapolis New York* • Philadelphia* • Pittsburgh* • Providence* • St. Louis* • San Francisco* • Seattle • Yakima (Wash.)
In Wisconsin: General Chemical Company, Inc., Milwaukee, Wis.
In Canada: The Nichols Chemical Company, Limited • Montreal* • Toronto* • Vancouver*

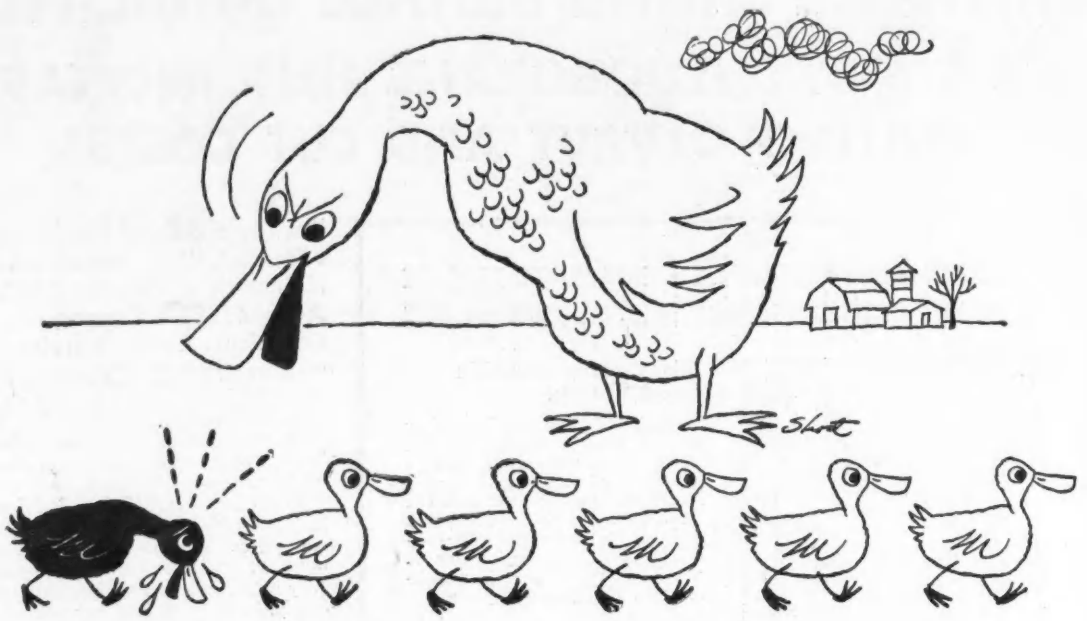
SETTING THE PACE IN CHEMICAL PURITY SINCE 1882

* Complete stocks are carried here.

## Cacao Butter—Cellulose Acetate

### C

Cacao butter (see Cocoa butter).
Cadmium iodide, jars lb 5.00 - 5.22
Metal, ingots or sticks, cs., dlvd. lb. 2.55 - —
Stearate, 50-lb. ctns., l.c.l., f.o.b. N.Y., frt. equald lb 1.25 - —
Caffeine, natural USP cryst, dms.
100 lbs. or more....lb. 4.75 - 5.50
anhydrous, dms. 100 lbs or more lb. 5.00 - 5.75
Synthetic, USP cryst., dms., 100 lbs or more lb 3.80 - —
anhydrous, dms. 100 lbs or more lb 4.00 - —
Citrated USP dms. 100 lbs or more lb 2.60 - —
Hydrobromide bots lb 6 70 Nom.
Calabar beans, bgs., futures.....lb. .48 .50
Calamine, USP dms .....lb. .27 - .29
Calamus root, dom., bgs.....lb. .28 - .30
imported bleached bls.....lb 70 Nom.
peeled bls .....lb .30 .31
Calciferol, cryst., vials, 250 grams or more, works gram 1 90 - —
25 to 249 grams, works gram 2.10 - —
1 to 24 grams, works gram 2.30 - —
in edible oil, dms., 10,000 or more standard units (1 standard unit equals 1,000,000 USP units), works unit. .04¾- —
1,000 to 10,000 standard units, works unit. .05¼- —
less than 1,000 standard units, works unit. .05¾- —
Calcium acetate, bgs., dlvd 100 lbs. 3.00 - 4.00
Arsenate, dealers, dms. c.l., whse., works, frt. alld. on 96 lbs. or over lb. .11 - —
l.c.l., same basis .....lb. .12 - 13
Bromide, NF, jars.....lb. .90 - 1.10
Carbide, standard generator size, dms., c.l. dlvd ton.121.00 —
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars lb. .28 - .30
flake, 77-80% paper bgs., c.l., works, frt. equald ton.25.00 - —
l.c.l., same basis ton.52.00 -82.00
liquor, same basis 40%, tank-cars ton.10.50 - —
pellets, bgs., c.l., works ton.31.25 - —
solid, 73-75% dms., c.l., frt. equald ton.23.50 - —
l.c.l., works, same basis ton.32.00 -69.00
USP, gran., bbls lb. .30 —
Chromate, bgs., frt. equald lb. 29½ .30
Cyanide, dms dlvd. E. of Rockies, lb. .30 - .50
Gluconate, AA, bbls., cms lb. .65 - .72
USP, bbls., dms lb. .58 .65
Glycerophosphate NF fib. dms. lb. 2.00 - 2.15
Hydride, dms., works lb. .90 —
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies dm.25.25 -29.85
cns., cased (45 lbs.) same basis, cs.21.00 -23.00
Hypophosphite, ton lots or less, dms lb. .80 .83
Iodide, jars.....lb. 4.32 - —
Lactate, USP, dms., 10,000 lbs. or more, works lb. .37 - —
smaller quantities works lb .38 .44
Mandelate, USP, dms., works lb. 2.10 - 2.25
Calcium naphthenate, liq., 4% Ca, dms., frt. equald.....lb. .25¼- —
Nitrate, tech., bbls., works.....lb. .10 - .12
Pantothenate, dextro, jars, 100 grams or more, frt. adjusted gram. .07¼- —
Phenolsulphonate, dms.....lb. .64 - .65
Phosphate, dibasic, USP, bgs., c.l. 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.25 - 7.50
feed grade, bgs., 15 tons, wks. ton.105.00 - —
one ton or over, works ton.115.00 - —
less than one ton, works ton.125 00 - —
monobasic, bgs. 10,000 lbs., works, frt. equald lb. .0605- —
smaller lots, same basis lb. .0655- —
tribasic, bgs., c.l., works.100 lbs. 6.75 - —
l.c.l., works ..... lb. 7.20 - 7.50
Phytate, bgs. works lb. .28 —
Resinate, precip. dms. frt. alld., works lb. .25¼- —
Silicate, hydrated, bgs. c.l. works lb. .06 - —
l.c.l., works.....lb. .06½- —
Stearate precip ctns., c.l., works. lb. .37 - —
l.c.l., works .....lb. .38 - .39
Sulphate (see Gypsum).
Calendula flowers, bls.....lb. .55 - .80
Calomel, USP, fine powd. dms. lb. 2.17 - 2.40
reg. powd., dms.....lb. 2.02 - 2.25
Camphene, dms. incl., c.l., works 100 lbs.14.60 -15.60
l.c.l., same basis.....100 lbs.14.90 -17.25
tanks, same basis.....100 lbs.12.50 -13.50
chlorinated, 67-69% (see Toxaphene).
Camphor monobromated NF, dms., kgs lb. 2.75 2.85
natural, powd., 100-lb. lots ... lb. .45 .55
tablets, 1-oz., ½-oz. cs .... lb. .85 .93
Camphor, synthetic, tech., bbls., 10 bbls. (1,500 lbs.)..lb. .50¼- —
smaller lots.....lb. .51 - .61
USP, gran., powd., bbls., 2,000-lb. lots..lb. .55 - —
1,000-lb. lots .....lb. .56 - —
smaller lots .....lb. .57 - —
tablets, tins, 2,000-lb. lots..lb. .83 - —
1,000-lb. lots .....lb. .84 - —
smaller lots .....lb. .85 - —
Canada balsam (see Fir balsam).
Canella alba bark, bls.....lb. .25 - .30
Cantharides, Chinese, cs.....lb. .65 - .70
powd., bxs. .....lb. .80 - .85
Russian, bgs. .....lb 3.85 3.90
powd. bxs. .....lb. 4.00 4.10
Capsicum (see Pepper, red).
Oleoresin, NF, from domestic pepper lb. 4.00 - 6.50
from African pepper.....lb. 5.75 6.75
Caramel coloring NF bbls .... gal. 1.05 1.20
Caraway seed, Dutch.....lb. .19 - .19½
Carbazole, 97% steel dms., ton lots, works lb. 1.55 - —
bbls., same basis .....lb. 1.65 - 1.85
Carbinol, butyl, secondary, dms., l.c.l., works lb. .70 —
Methylisobutyl, dms., c.l., frt. alld. E lb. .14¼- —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .12½- —
Carbon bisulphide, 50-gal. dms., c.c., works, frt. alld to competitive points..lb. .06½- —
l.c.l., same basis.....lb. .07½- —
5-gal. dms., c.l. same basis lb. .08¾- —
l.c.l., same basis.....lb. .09¾- —
tankcars, same basis.....lb. .0480- —
Dioxide, cyls .....lb. .06 - .08
Tetrachloride, c.p., dms., works, lb. .10 - .11
NF, cbys .....lb. .17 - .19
tech., dms., c.l., E. of Rockies, frt alld..lb. .08 - —
W. of Rockies, f.o.b. stock points..lb. .09 - —
l.c.l., E. of Rockies, frt. alld. lb. .09½- —
W. of Rockies, frt. alld. lb. .102 - —
tanks, E. of Rockies, frt. alld. lb. .07¼- .08¼
W. of Rockies, frt. alld..lb. .08¼- —
Carboxymethylcellulose-Sodium—See CMC
Carbromal, NF dms., 100-lb. lots, works lb. 4.00 4.25
smaller lots, works .... lb. 4.10 4.75
Cardamom fruit, bleached, bold, fancy, cs..lb. 3.75 - 3.80
medium, cs.....lb. 3.40 - 3.45
decorticated, Alleppey, cs...lb. 4.00 Nom.
Ceylon, cs. .....lb. 3.40 Nom.
Guatemala, cs.....lb. 3.95 - 4.00
Indian, cs .....lb. 3.65 - 3.70
Mangalore, cs.....lb. 2.65 - 3.70
green, Alleppey, bgs.....lb. 3.30 - 3.40
Ceylon, bgs.....lb. 3.20 - 3.25
seed (See Cardamom fruit, decorticated)
Carmine No 40 NF bulk, 100 lbs. or more, dlvd lb. 5.50 - —
smaller lots, dlvd .....lb. 5.65 - 6.15
Carotene, crystals, research grade, ampuls, pure alpha or beta. 10 mg. 5.00 - —
90% beta-10% alpha, ampuls. 100 mg. 2.00 - —
gram quantities gm. 5.00 - —
technical, 1,350,000 A units per gram..gm. .67½- —
tins, works gm. .40 —
dry powder, 3,330 A units per gram lb. .81 - —
emulsion (in milk), 600,000 A units per 16-oz. cn. 1.00 - —
in vegetable oil, 166,666 A units, per gram lb.25.24 - —
50,000 A units per gram lb. 7.86 - —
8,800 A units, per gram, tins, works milli. units. .18 - —
dms., works milli. units. .16 - —
3,330 A units per gram lb. .85 - —
microcrystalline, in oil, 400,000 A units per gram, tins, works milli. units. .24 - —
Carvol, bots lb. 8.75 9.00
Cascara sagrada bark, bulk.....lb. .36 - .38
Case-hardening mixture, 30% gran, dms., l.c.l., works lb. .10½- —
Casein, dom., acid-precip, standard, bgs., 10,000 lbs. or more, ship't point lb. .39 - .40
premium, bgs., 10,000 lbs. or more, ship't point lb. .41½- .43½
imp. acid-precip., ground 100 bgs. or more, ex-dock lb. .37½- .37¾
rennet-precip., bgs., 10,000 lbs. or more, ex-dock lb. .33 - .36
Cashewnut shell liquid, treated, dms., c.l., f.o.b. Newark, N.J. lb. .21 - —
ton lots same basis lb. .22¼ —
dm lo's same basis lb. .24¼- —
Cassia, Batavia, cuttings, bls...lb. .14 - .14½
longstick, cracked, bls.....lb. .18 - .19
afloat, bls .....lb. .17 - .18
shortstick, bls .....lb. .16 - .17
afloat, bls .....lb. .15 - .16
China, Canton, Kwangsi rolls select, cs. lb. .13 - .13½
broken, bls.....lb. .12½- .13
Honan, Yunnan, scraped, bls lb. .19 - .19½
broken, bls. .....lb. .17½- .18
unscraped, bls. .....lb. .17 - .17½
broken, bls .....lb. .16 - —
Saigon, broken, bls.....lb. .30 - .31
afloat .....lb. .28 - .28½
medium, bls .....lb. .38 - .39
thin, bls., afloat.....lb. .47 - .48
Cassia fistula, bskts lb .30 .35
Castor beans, bgs., f.o.b. Brazilian ports, long ton.180.00 - —
Oil (see Oil, castor)
Pomace, bgs., c.l., works..unit-ton. 5.50 - —
Castoreum, natural, cns .....lb. 7.00 -30.00
artificial, cns. .....lb. 9.00 9.25
Catechol, CP cryst, fib. dms., works lb. 2.00 - —
resublimed, dms., works.....lb. 4.00 - —
Catnip leaves, bls.....lb. .76 - .80
Celery seed, French, bgs., afloat..lb. .33½- .35
Indian, bgs.....lb. .24 - .24½
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld on 100 lbs. or more lb. .36 - .38
molding, composition, plain colors, translucent, metallic pearls, special black, dms., c.l., frt. alld lb. .40 - —
l.c.l., same basis .....lb. .45 - .51
regular, black, dms., l.c.l., same basis lb. .31 - .39
variegations, dms., l.c.l., same basis lb. .50 .59
molding and extrusion transparents, dms., c.l., same basis lb. .47 - —
l.c.l., same basis.....lb. .49 - .54
extrusion compounds, translucent metallic pearls special black, dms., c.l., same basis lb. .42 —
l.c.l. same basis.....lb. .44 .49

# UNIFORM QUALITY is Important

...It's particularly important in the resins you use to formulate your finishes. And you'll find no ugly ducklings among the resin batches you get from U.S.I. They're *always* uniform, *always* of the same high quality.

Because every raw material used in making U.S.I. resins must meet rigid specifications. And U.S.I.'s resin processing equipment is outfitted with special controls... accurate timing devices... and automatic recorders—all the elaborate facilities needed to insure quality that *doesn't vary*.

Then to be doubly certain, U.S.I. runs control checks on *all* finished resins before they are released for shipment to you. Just specify U.S.I., and you can be *sure* of uniform high quality.

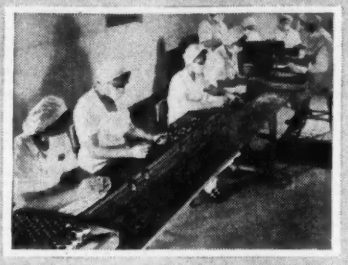
## the Complete Resin Line

| | |
|---|---|
| *Arochem | Modified Maleics and Phenolics |
| *Arofene | Pure Phenolics |
| †Aroflat | For special flat finishes |
| *Aroplaz | Alkyds and allied materials |
| Ester Gums | All types |
| Natural Resins | All standard grades |
| Congo Gums | Raw, fused, esterified |

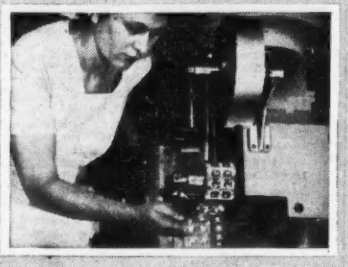
*Reg. U.S. Pat. Off. †U.S. Trade-mark Pending

U.S.I. INDUSTRIAL CHEMICALS, INC.
60 East 42nd Street, New York 17, N. Y.
*Branches in all principal cities*

New Animal Laboratories — center of pharmacological research, testing, control.

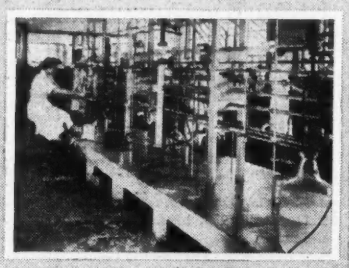


New Penicillin Packaging Department.



New Seal Crimp Machine for packaging tablets in air-tight, moisture-resistant compartments.

# New Departments New Departures



New Extension, Research Laboratory.

New Soft Elastic Capsule Department.

New AMPIN Assembly Department—AMPINS: syringe, ampul, solution and needle in a single, sterile injection unit.

New laboratories . . . new research facilities . . . new manufacturing equipment . . . new packaging machines . . . this is the ever-changing picture at Strong Cobb, largest creative formulation manufacturer in the country. And, each unit of the Strong Cobb picture does its part in assuring the production of the finest pharmaceuticals obtainable.

Tablets, capsules, liquids, creams—whatever form, size or shape your formula takes, Strong Cobb can "build" it for you. Build it step by step—*laboratory tests, clinical studies, manufacture, control, package, label advice*—all aimed at a predetermined, profitable market!

**Strong Cobb & Co. Inc.**
2654 Lisbon Road • Cleveland 4, Ohio
STRONG COBB
*Originators and Developers of the AMPIN® for Automatic, Subcutaneous and Intramuscular Injection*

## Cellulose Acetate-Butyrate—Coriander Seed

**Cellulose acetate-butyrate**, flake, 17% butyryl content, ctns., 500 lbs. or over, works lb. .54 - —
less than 500 lbs., works, lb. .59 - —
17.5% butyryl content, ctns., 500 lbs. or over, works lb. .50 - —
less than 500 lbs., works lb. .51 - —
26.5% butyryl content, ctns., 500 lbs. and over, works lb. .52 - —
less than 500 lbs., works lb. .53 - —
37% butyryl content, ctns., 500 lbs and over, works lb. .52 - .55
less than 500 lbs., works lb. .53 - .56
48% butyryl content, ctns., 500 lbs. and over, works lb. .57 - —
less than 500 lbs., works lb. .58 - —
**Molding composition plain colors**, pearls, transparents, special black dms, l.c.l. frt alld, lb .50 .61
regular black dms l.c.l. same basis lb .44 .48
variegations dms., c.l., same basis lb. .61 .68
**Triacetate flake** ctns. works, frt allwd on 100 lbs or more lb .40 - —
**Cerium** hydrate, dms. works lb 1.35 —
**Oxalate**, NF bbls, bgs, works lb .70 - .75
**Oxide** optical grade, bgs. under 100 lbs., works lb 2.25 —
kgs., 100-lb lots, works lb 1.55 —
**Chalk**, precip. cosmetic dentifrice drugs, bgs., c.l., works lb. .0295- .035
l.c.l., ex whse lb. .0395- .05
**Paint**, bbs. c.l. works ton 40.00 —
**Papermakers**, bgs. c.l., works ton.32.50 40.00
**Rubber makers**, bgs. c.l., works ton.55.00 -60.00

**Chamomile flowers**, Hungarian, cs lb. .85 - 1.00
Roman, bls. lb. .80 - .85
**Charcoal**, activated USP fib. dms. c.l., works lb .25 .32
5-ton lots, works lb .29½ .32½
smaller lots, works lb .27 .30
**Bone**, NF, bbls lb .23 - —
**Hardwood**, briquets, bgs., c.l., works ton.51.80 - —
bulk, c.l., works ton 49.80 - —
**granular**, bgs. incl. c.l. works ton 46.80 55.00
lump, bgs., extra, returnable c.l., works ton.41.80 45.50
bulk, c.l., works ton.36.80 43.50
**Pinewood gran.** powd., ogs. c.l. works, South ton.40.00 —
l.c.l. works ton 40.00 50.00
lump bgs. c.l., works, South ton 40.00 —
l.c.l., works, South ton 40.00 50.00
bulk, c.l., works South ton.30.00 —
**Chestnut extract** 25% tannin, bbls., c.l., works lb. .0450- —
l.c.l., works lb. .0485- —
tanks, works lb. .0375- —
**powd.**, 60% tannin, bgs., extra, c.l., works lb. .0972- —
l.c.l., works lb. .1042- .1142
**China clay**, dom. dry-grd., air-float, 99.75% 300 mesh, bgs., c.l. works ton.12.50 13.00
l.c.l., works ton.13.50 14.00
bulk, c.l. works ton 9.50 10.00
200 mesh bgs., c.l., works ton.10.00 12.00
l.c.l. works ton.11.00 16.00
wet-grd., silk-bolt, 99½%, 325 mesh bulk, c.l., works ton.13.00 - —
paper bgs. c.l. works ton.16.00 —

**China clay**, imported, white, lump, bulk, c.l., ex dock Phila., Portland, Me. gross ton.19.00 -40.00
powd. ogs. c.l. ex dock net ton.35.00 -45.00
l.c.l. ex whse net ton 45.00 -60.00
**Chloral**, tech., 94% min. dms. c.l., works lb .23 - —
l.c.l., works lb .24 - —
tanks, works lb .21 - —
**Hydrate**, USP, fars lb 1.05 - 1.10
**Chloramine T** NF bbls, works lb 75 1.00
**Chlordane**, agricultural, dms., pails, c.l., works lb. .65 - —
l.c.l. works lb .70 - 75
refined, dms., c.l., works lb. 75 - —
l.c.l., works lb. .80 - .85
**Chlorinated paraffin** dms. frt alld, lb. .12½- .13¼
**Rubber standard** ctns. c.l. works lb 42 —
l.c.l. works lb 43 —
**Chlorine**, liquid, cyls., c.l., N.Y. lb. .08¾- —
l.c.l., N.Y., stock points lb. .10¼- —
tanks, single units, works, frt. equald 100 lbs. 2.70 - —
multiple units, 3 cars, works, frt. equald 100 lbs. 3.20 - —
2 cars, same basis 100 lbs. 3.80 - —
1 car, same basis 100 lbs 4.40 - —
**Chloroform**, tech. dms., c.l., dlvd. E lb .18 - .20
l.c.l., same basis lb. .26 - .33
tanks, same basis lb. .16 - —
USP, dms. lb. .30 - .35
**Chlorophenol 2-Toluidine**, bbls lb. 1.30 —
**Chlorophyll**, 4% oil soluble, water soluble, cosmetic and pharmaceutical, pails tins lb. 3.75 - 4.25


MONTROSE MONTROSE MONTROSE
TROSE MONTROSE MONTROSE MONT
MONTROSE MONTROSE MONTROSE
TROSE MONTROSE MONTROSE MONT
MONTROSE MONTROSE MONTROSE
TROSE MONTROSE MONTROSE MONT
MONTROSE MONTROSE MONTROSE
TROSE MONTROSE MONTROSE MONT
MONTROSE MONTROSE MONTROSE
TROSE MONTROSE MONTROSE MONT
MONTROSE MONTROSE MONTROSE
TROSE MONTROSE MONTROSE MONT

DDT Government Specifications

2, 4-D Acid, Salt and Isopropyl Ester

TRICRESYL PHOSPHATE

ERGOSTEROL
(Non Irradiated)

MONTROSE CHEMICAL COMPANY
LISTER AVENUE, NEWARK, NEW JERSEY
SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N. Y.
TRIBUNE TOWER, CHICAGO, ILLINOIS


**Chloropicrin**, com'l, bots lb. 1.50 - —
cyls., 180 lbs., frt. alld. lb. .95 - —
100 lbs., same basis lb. .97 - —
25 lbs., same basis lb. 1.22 - —
**Cholesterol**, USP, fib. dms., 100-lb. lots lb. 8.50 - —
5-lb pkg. lb 9.00 - —
1-lb pkg. lb 9.50 - —
**Choline bitartrate**, fib dms., frt. adjusted lb 2.30 2.55
**Chloride**, fib dms., same basis lb 2.30 2.55
**Dihydrogen citrate** fib. dms. same basis lb 2.30 2.55
**Chromium acetate** powd 72% Cr. bbls, works lb No stocks
solut., 7½% bbls., works lb. .08½- —
cbys lb. .10¼- —
8½%, bbls., works lb. .09 - —
cbys lb. .10¾- —
**Fluoride** bbls., works lb 44½- —
**Green** (see Green chromium)
**Oxide** (see Green chromium oxide)
**Oleate**, solid, bbls lb 49 - —
**Trioxide**, USP, bots lb 52 - —
**Yellow** (see Yellow chrome)
**Chrysarobin** USP, bots lb 7.65 9.29
**Cinchona bark** NF red, quill, 20-inch, cs lb 1.25 Nom.
broken, bgs lb .40 .43
yellow, broken, bgs lb .33 .35
**Cinchonidine**, cryst. cns. 100 ozs. oz .71 .72
Sulphate, cns., 100 ozs oz. .37 - .40¼
**Cinchonine**, cryst. cns. 100 ozs. oz .57 .65
Sulphate, NF, cns. 100 ozs oz. .30½- .42
**Cinchophen** NF heavy density, dms., frt. adjusted lb. 3.70 4.05
Standard density, dms. same basis lb. 3.50 3.85
**Cinchophen-sodium** dms. frt. adjusted lb. 4.50 4.85
**Cinnamic alcohol** (see Alcohol, cinnamic)
**Aldehyde**, NF, cns., dms lb. 1.00 - 1.25
**Cinnamon**, Ceylon, No. 2, bls. lb. .32 - .33
**Citral**, bots, cns lb. 5.75 - 6.50
**Citronellal**, bots., dms lb. 4.35 - 7.75
**Citronellol**, bots., dms lb. 3.40 - 3.50
**Civet**, bots oz 4.00 -13.00
artificial, bots lb 13.75 -15.00
**Clove**, Madagascar, bls. lb. .26½- .27
Zanzibar, bls lb. .26½- .27
**Clover tops**, red, dom., bgs. lb. .95 - 1.00
imported, bgs lb No stocks
**CMC**, purified, high vis. ctns., 20,000 lbs or over, works, frt alld lb. .57 - —
smaller lots, same basis lb. .59 - .69
low and medium vis., ctns., 20,000 lbs or over, works, frt alld lb. .54 - —
smaller lots same basis lb. .56 - .60
**tech.** low and medium vis. dms., c.l., works, frt alld lb. .41 - —
l.c.l., works lb. .43 - —
**Coaltar**, coal-gas, water-gas, crude, resale dms c.l. ex-whse, gal. .24 - —
l.c.l., ex-whse gal. .26 - —
tanks, ex-whse gal. .14½- —
refd. resale bbls c.l. ex-whse, gal. .25 - —
l.c.l., ex-whse gal. .27 - —
tanks, ex-whse gal. .15 - —
**Cobalt acetate** bbls. dlvd lb. .93½- —
**Carbonate**, 46% powd., bgs., works lb. 1.65 - —
**Chloride**, 24.5% Co, kgs., works lb. .91¼- —
**Hydrate**, 60.3% Co bbls lb. 2.13 - —
**Linoleate**, liquid, 6% Co, dms lb. .48¾- —
fused, 8½%, Co, dms lb. .58 - —
**Metal** 97.99% kgs ex-whs. lb 1.80 —
under 100 lbs ex whse lb 1.82 1.87
**Naphthenate**, liq., 6% Co, dms lb. .38¾- —
**Nitrate**, 20.4% Co, bbls lb. .78¾- —
**Oxide**, black, kgs lb 1.38 —
**Phosphate**, feed grade, 34% Co, kgs lb. 1.31¼- —
**Resinate**, fused, 3% Co, dms lb. .23¼- —
**Sulphate**, bgs. 21% Co, kgs lb. 1.05 - —
**Cocaine**, USP, cns. 100-oz oz.15.00 - —
**Hydrochloride** cns. 100-oz lots oz.11.75 - —
**Cochineal**, gray, bgs lb 67 .69
silver Teneriffe bgs lb 69 .70
**Cocillana bark**, bgs. lb. .17 - .18
**Cocoa butter**, bgs. lb. .72 - .77
**Codeine**, NF cns 100 ozs oz.13.25 - —
**Hydrochloride**, cns. 100 ozs oz.11.85 - —
**Phosphate**, USP cns., 100 ozs oz.10.25 - —
**Sulphate**, USP cns. 100 ozs oz.10.75 - —
**Codliver oil** (see Oil, codliver)
**Cohosh**, black root, bls lb. .20 - .25
**Blue**, root, bls. lb. .17 - .18
**Colchicine**, USP, bots., cns. oz 79.00 -85.00
**Colchicum root**, bls lb .60 .70
**Seed**, bgs. lb. 1.10 - 1.20
**Collodion**, USP, dms. lb. .26 - —
**Flexible**, USP, dms. lb. .27½- —
**Colocynth**, pulp, bls. lb. .20 - .22
**Colombo root**, bls. lb. .13 .15
**Coltsfoot leaves**, bgs lb 30 35
**Condurango bark**, bgs. lb. .20 - .24
**Copaiba balsam**, cns., dms. lb. 1.10 - 1.30
**Copper acetate cupric** bbls, works lb .28 —
smaller containers, works lb. .29 .30
**Carbonate**, 55%, bgs., works lb. .22 - .23½
**Chloride**, anhyd., bbls., works lb. .34½- —
crystals, bbls., works lb. .22¾- —
**Citrate**, USP, 5-lb bots lb 3.40 - —
**Cyanide**, tech., bbls. lb. .523 - .543
**Gluconate**, cns., dms lb. 3.00 - 3.24
**Hydrate**, dms., frt. alld. E. Miss. lb. .27½- .28
**Metal**, electrolytic, dlvd lb. .24½- —
**Naphthenate** liquid 8% Cu, dms., frt. alld. lb. .24¾- —
**Nitrate** tech. cryst. bbls. works, lb. .25¼- —
**Oleate**, liquid, 8.5% Cu bbls lb .27 - —
solid 10% Cu, bbls lb .39 - —
**Oxide**, black, bbls., works lb. .35 - .36
red, com'l, bbls., works, c.l. lb. .37 - .39
l.c.l. lb. .43 - .45
**Oxychloride-sulphate**, bgs., frt. alld lb. .24¼ Nom.
**Quinolate**, fib. dms lb. 3.50 - —
**Resinate**, precip., dms., frt. alld. lb. .25¼- —
**Stearate**, bgs., works lb. .47½- —
**Sulphate**, cryst., 99%, ogs., c.l., works 100 lbs. 8.95 - 9.95
l.c.l. 100 lbs. 9.95 -10.95
**CP**, cryst., gran., bbls., works. lb. .1470- —
**monohydrated**, 35%, dms., c.l., works 100 lbs.14.95 - —
**tribasic**, dealers, bgs., c.l., works, frt. alld lb. .2435- —
l.c.l., works .2585- —
**USP**, gran., cryst., dms lb. .1470- .26
**Undecylenate**, dms. lb. 2.50 - 2.75
**Copperas**, cryst., gran., bgs., c.l., works ton.17.00 - —
l.c.l., works 100 lbs. 1.55 - 2.00
bbls., c.l., works ton.20.00 - —
bulk, c.l., works ton.14.00 - —
**Copra**, c.i.f. Atlantic, Gulf ports ton.227.50 - —
Pacific ports ton.222.50 - —
**Coriander seed**, Argentine, bgs lb. .17 - .17½
afloat, bgs lb. .5 - —
Italian, bgs lb. No stocks.
Moroccan, bgs lb. .22 - .24

Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 6.44 - —
bbls., c.l., same basis 100 lbs. 6.50 - —
Syrup, 42°, bbls., c.l. 100 lbs. 6.72 - —
l.c.l. 100 lbs. 6.87 - —
Cornsilk, bls lb. .15 .19
Corrosive sublimate, NF, cryst., dms., 50 lbs. or more lb. 1.88 - 2.08
gran. powd. dms. 50 lbs or more lb. 1.73 - 1.93
Cottonroot bark, bls lb. .26 .28
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton 1.75 —
Meal, 41% protein, bulk, Memphis ton 77.50 - —
Coumarin, NF, cns lb. 3.00 3.25
powd., cans lb. 3.25 3.50
Cramp bark, NF, bls lb. 1.10 - 1.20
Cranesbill root, bls lb. .55 - .60
Cream of tartar, dom., NF, gran. or powd., bbls., 5,000 lbs. one ship lb. .31 - —
smaller lots, bbls., kgs lb. .31½- .32½
Creosote, coaltar, crude, tanks, works, frt. adjusted gal. .20 - —
refined, dms., c.l., works, gal. .35 - —
l.c.l., same basis gal. .41 - —
tanks, same basis gal. .27 - —
solution, 80%, tanks, works, gal. .188 - —
NF, beechwood, bots., cbys lb. 1.25 - —
hardwood, bots., cbys lb. .95 - —
Pinewood, dms gal. .31 .35
Carbonate, NF, bots., cbys lb. 2.70 —
Cresols, tech., dry, above 207°C, non-ret. dms., c.l. frt. equald. lb. .138 - —
l.c.l., same basis lb. .141 - —
ret. dms., c.l., same basis. lb. .1375- —
l.c.l., same basis lb. .1410- —
tanks, same basis lb. .125 - —
USP, non-ret. dms., c.l., same basis lb. .148 - —
l.c.l., same basis lb. .151 - —
ret. dms., c.l., same basis lb. .145 - —
l.c.l., same basis lb. .148 - —
tanks, same basis lb. .135 - —
Crotonaldehyde, 91-93%, dms., c.l works lb. .16½- —
l.c.l., works lb. .17 - .20
Cryolite, nat., dealers, bgs., c.l., works 100 lbs. 13.75 - —
bbls., l.c.l., works 100 lbs. 14.00 - —
Cube root, powd., 5% rotenone, bgs., ton lots, works lb. .27 - .30
Cubeb berries, XX NF bgs lb. .55 - .60
powd., cs lb. .65 - .70
Culvers root, bbls lb. .50 - .60
Cumene dms., c.l. lb. .08 - —
l.c.l. lb. .09 - —
tanks gal. .53 - .56
Cumin, seed, Iranian, bgs lb. .23 - .23½
Syrian, bgs lb. .23 - .23½
Cutch, extract, 65% tannin, bgs., ex dock lb. .06¾- —
Cyanamide, fertilizer mixing grades, 20.6% N, gran., bulk, Niagara Falls, Ont., contracts, ton 46.50 - —
ton 46.50 - —
pulv., 21% N., bgs. same basis unit-ton 2.25 - —
Cyclohexane, tech., dms., c.l., works. lb. .11 - —
l.c.l., works lb. .11¾- —
tanks, works lb. .09¼- —
Cyclohexanol, tech., dms., c.l., works. lb. .31½- —
l.c.l., works lb. .33 - —
tanks, works lb. .30 - —
Cyclohexanone, tech., dms., c.l. lb. .26¼- .30
l.c.l., works lb. .27 - .31
tanks, works lb. .25 .29
Cyclohexylamine, dms., c.l., works. lb. .37½- —
l.c.l., works lb. .38½- —
tanks, works lb. .36½- —
Cyclopropane, USP, 2 lb. cyls., works, cyl. 40.00 —
6 oz. cyls., works cyl. 10.50 - —
Hospitals, cyls., 40 gal. lots gal. .32 - —
100-gal. lots gal. .31 - —
200-gal. lots gal. .30 - —

## D

2, 4-D bbls, c.l., works frt equald. lb. .43 - .48
l.c.l., same basis lb. .48 - .60
Isopropyl ester, dms., c.l., works lb. .54 - —
l.c.l., works lb. .59 - .66
2, 4, 5-D tech. acid, dms., c.l., works. lb. 1.50 - —
l.c.l., same basis lb. 1.55 - —
Isopropyl ester, tech., dms., c.l., works lb. 1.60 - —
l.c.l., same basis lb. 1.65 - —
Damiana leaves, bls lb. .35 - .37
Dandelion root, bls lb. .55 - .60
DDD, tech. fine grd. fib. dms., c.l., works lb. 51 —
l.c.l. works lb 51½- —
lump, fib. dms., c.l., works lb. .49 - —
l.c.l. works lb 49½ —
DDT, fiber dms., c.l., works, frt. equald lb. .36 - .42
smaller lots, same basis lb. .37 - .43
Decanol, normal, tech., dms., c.l., dlvd lb. .34½- —
l.c.l. dlvd lb 36½ —
tanks, dlvd lb 32 —
Deertongue leaves, bls lb. .35 - .40
Defluorinated phosphate, 65% b.p.l., paper bgs. works ton 44 15 - 55 75
Rock, 14½% P, paper bgs. works ton 45 00 —
Degras, common, bbls lb .11 - 12
Neutral, less 2% ffa, bbls lb 21 .22
over 2% ffa, bbls lb 20 21
Derris root, 5% rotenone powd. lb. .35 - .38
Desoxyephedrine hydrochloride, dextro, dms lb 30 00 —
Dextro-laevo, dms. lb. 7.50 - —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 7.95 - —
l.c.l. 100 lbs. 8.10 - —
Chicago, c.l. 100 lbs. 7.30 - —
canary, paper bgs., c.l. 100 lbs. 7.69 - —
l.c.l. 100 lbs. 7.84 - —
Chicago, c.l. 100 lbs. 7.04 - —
dark, paper bgs., c.l. 100 lbs. 7.79 - —
l.c.l. 100 lbs. 7.94 - —
Chicago, c.l. 100 lbs. 7.14 - —
white, paper bgs., c.l. 100 lbs. 7.54 - —
l.c.l. 100 lbs. 7.69 - —
Chicago, c.l. 100 lbs. 6.89 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, bgs lb. .0860- .0910
Dextrose, USP, dms lb .17¾ —
Diacetone (see Alcohol diacetone)
Diacetyl, flavor grade, bots lb. 5.00 - 5.55
laboratory grade, bots 100 grams 4.50 —
tech. bots. works lb 3.00 —
Diamyl ether (see Ether, amyl)
Phthalate, dms., c.l., dlvd, E lb. No prices.
l.c.l., dlvd, E lb. No prices.
tanks, dlvd, E lb. No prices.
Dianisidin, dms lb. 1.75 —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast ton 50.00 - 52.00
California ton 38.00 - 40.00
l.c.l., ex whse ton 80.00 - —

Diatomaceous earth, dom., purified, bgs., c.l., Atl. coast ton 62.00 - —
California ton 50.00 - —
l.c.l., ex whse ton 90.00 - —
Imported, Algerian, bgs., c.l., Atlantic coast ton. No prices.
Mexican, white, bgs., c.l., Atlantic coast lb. .03 - —
l.c.l., Atlantic coast lb. .06 - —
Dibenzyl sebacate, dms., c.l., works. lb. .75¾- —
l.c.l., works lb. .76¾- —
tanks, works lb. .74 - —
Dibutyl phthalate, dms., c.l., dlvd lb. .33½- .36¾
l.c.l., dlvd lb. .34½- .37¾
tanks, dlvd lb. .32 - .35
Sebacate, CP, dms., c.l., works lb. .69¼- —
l.c.l., works lb. .70¼- —
tech., dms., c.l., works lb. .67¼- —
l.c.l., works lb. .68¼- —
Tartrate, dms., works, frt. alld lb. .62 - —
Dibutylamine, dms., c.l., frt. alld lb. .51½- —
l.c.l., frt. alld lb. .52½- —
tanks, frt. alld lb. .49¾- —
Dicapryl phthalate, dms., c.l., dlvd. lb. .39¾- —
l.c.l., dlvd lb. .40¾- —
tanks, dlvd lb. .38 - —
Sebacate, dms., c.l., works lb. .63¼- —
l.c.l., works lb. .64¼- —
tanks, works lb. .61½- —
Dichloroanilin, dms., works lb. .75 .80
Dichlorodiphenyldichloroethane (see DDD).
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyD.
Dichloropentanes, dms., c.l., works. lb. .047 - —
l.c.l., works lb. .055 - —
tanks, works lb. .04 - —
Dichlorophenol, dms., c.l., frt. equald lb. .27 - —
l.c.l., frt. equald lb. .28 - —

## Corn Sugar—Dihydrostreptomycin Hydrochloride

Dicyclohexylamine, dms., c.l., works lb. .41¼- —
l.c.l., works lb. .42 - —
tanks, works lb. .40 - —
Dicyclohexylphthalate, fib. dms., c.l., works lb. .47 - —
l.c.l., same basis lb. .48 - —
Diethanolamine, dms., c.l., frt. alld., E lb. .28¼- —
l.c.l., same basis lb. .29¼- —
tanks, same basis lb. .26½- —
Diethyl carbonate, dms., c.l., frt. alld lb. .36¾- —
l.c.l., same basis lb. .37¾- —
tanks, same basis lb 35 —
Maleate, dms., c.l., dlvd lb. .50 - —
l.c.l., dlvd lb. .51 - —
tanks, dlvd lb. .48½- —
Oxalate, dms., c.l., frt. alld lb. .34¾- —
l.c.l. same basis lb. .35¾- —
tanks, same basis lb 33 —
Phthalate, dms., c.l., dlvd lb. .29¾- —
l.c.l., dlvd lb. .30¾- —
tanks, dlvd lb. .28 - —
Sulphate, dms., c.l., works lb. .17¼- —
l.c.l., works lb. .17¾- —
tanks, works lb. .15½- —
Diethylamine, dms., c.l., frt. alld. E lb. .57 - —
l.c.l. same basis lb. .58 - —
tanks, same basis lb. .55¼- —
Diethylanilin, dms. lb. .48 - —
Diethyleneglycol, dms., c.l., frt. alld. E lb. .19¼- —
l.c.l., same basis lb. .20¼- —
tanks, same basis lb. .17½- —
Boriborate, dms., l.c.l. lb. .28 - —
Diethylether, dms., c.l., works lb. .46½- —
l.c.l., works lb. .47 - —
Diethyleneglycol monobutylether, dms., c.l., works lb. .25¾- —
l.c.l., works lb. .26¾- —
tanks, works lb. .24 - —
Monobutylether acetate, dms., c.l., works lb. .27¼- —
l.c.l., works lb. .27¾- —
Monoethylether, dms., c.l., works. lb. .19¼- —
l.c.l., works lb. .19¾- —
tanks, works lb. .17½- —
Monoethylether, acetate, dms., c.l., works lb. .25¼- —
l.c.l., works lb. .25¾- —
Monomethylether, dms., c.l., works. lb. .23¼- —
l.c.l., works lb. .23¾- —
tanks, works lb. .21½- —
Diethylenetriamine, dms., c.l., works. lb. 42 - —
l.c.l. works lb. 42½- —
tanks, works lb. 40 —
Diethylethanolamine, dms., c.l., works, frt. alld lb. .61½- —
l.c.l. same basis lb 62½- —
tanks, same basis lb .59¾- —
Diethylstilbestrol, USP, bots kilo. 240.00 - 300.00
Digitalin, cryst, bots gram. 12.50 - 18.00
powd, bots oz. 25 00 - 30.00
Digitalis leaves, dms lb. .85 - 1.25
Digitoxin, USP, bots gram. 8.00 - —
Diglycol, taurate, dms lb. No prices.
Oleate, dms. lb. .38 - —
Stearate, dms. lb. No prices.
Dihexyl sebacate, dms., c.l., works lb. .51¼- —
l.c.l., works lb. .52¾- —
tanks, works lb. .50 - —
Dihydrostreptomycin hydrochloride and sulphate, hospitals, vials gram. .60 - —
wholesalers, vials gram. .40 - —


# Alkyl Phenol C-9

*Jefferson's new chemical* { *intermediate* / *stabilizer* / *plasticizer*

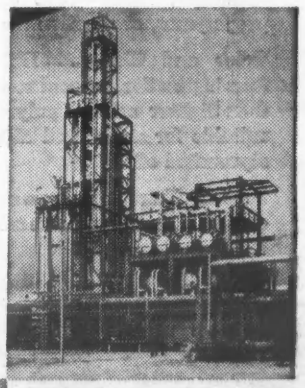
Properties of Jefferson Alkyl Phenol C-9 indicate a wide range of application as

1. an intermediate for non-ionic detergents
2. a stabilizer for ethyl cellulose
3. a plasticizer for cellulose esters
4. an intermediate for other plasticizers
5. a starting material for production of lubricating oil additives and rubber chemicals
6. an antioxidant

*A typical description of Jefferson Alkyl Phenol C-9 is:*

| | |
|---|---|
| Specific Gravity 20/4°C. | 0.949 |
| Hydroxyl No. | 255 |
| APHA Color | 100 |
| Refractive Index (20°C.) | 1.5140 |
| Flash Point (TOC°F.) | 300 |
| ASTM°C. | |
| IBP | 290.0 |
| 5 ml. | 293.0 |
| 50 ml. | 295.0 |
| 95 ml. | 296.5 |
| E.P. | 298.0 |

You may secure technical information and experimental samples for research and product development by writing—on your company letterhead, please: Market Development Division, Department A.



*Compressor piping frames this picture of a Jefferson ethylene unit (purification section) at Port Neches, Texas.*

**Jefferson Chemical Company, Inc.**

711 FIFTH AVE., NEW YORK 22, N.Y.

ESSENTIAL CHEMICALS FROM HYDROCARBON SOURCES

ETHYLENE OXIDE
DIETHYLENE GLYCOL
ETHYLENE DICHLORIDE
ETHYLENE GLYCOL

## Dihydrodichlorodiphenylmethane—Dyes, Coaltar, General Use

| | | | |
|---|---|---|---|
| Dihydroxydichlorodiphenylmethane, dms | lb | .95 | 1.00 |
| smaller containers | lb | 1.05 | 1.40 |
| Di-isobutyl ketone, dms. c.l., dlvd. | lb. | .15¼ | - — |
| l.c.l., dlvd | lb. | .16¼ | - — |
| tanks, dlvd | lb. | .13½ | - — |
| Di-isobutylene, dms., c.l., works | lb. | .09¼ | - — |
| l.c.l., works | lb. | .10 | - — |
| tanks, works | lb. | .07½ | - — |
| Di-isooctyl phthalate dms. c.l. dlvd | lb. | .39¼ | - — |
| l.c.l., same basis | lb. | .40¾ | - — |
| tanks, same basis | lb. | .38 | - — |
| Di-isopropylamine dms. c.l., frt. alld | lb. | .49¾ | - — |
| l.c.l., same basis | lb. | .50¾ | - — |
| tanks, same basis | lb. | .48 | - — |
| Dillseed, dewhiskered, bgs | lb. | .13 | - .13½ |
| Dimethyl chloroacetal dms., c.l., works | lb. | .53 | - — |
| l.c.l. works | lb. | .55 | - — |
| tanks, works | lb | .51 | - — |
| Phthalate, dms., c.l., dlvd | lb. | .25¾ | - — |
| l.c.l., dlvd | lb. | .26¾ | - — |
| tanks, dlvd | lb. | .24 | - — |
| Sebacate, dms., c.l., works | lb. | .78¾ | - — |
| l.c.l., works | lb. | .79¾ | - — |
| tanks, works | lb. | .77 | - — |
| Sulphate 55-gal. ret. dms., c.l. works | lb. | .15 | - — |
| l.c.l. works | lb. | .16 | - — |
| 10-gal. ret dms. works | lb | 16½ | — |
| Dimethylamine, 25%-40% dms., ci. works, basis 100% | lb. | .37 | .38 |
| l.c.l., works, basis 100% | lb. | .37½ | .38½ |
| tanks, works basis 100% | lb | .32 | — |
| Dimethylanilin, dms., c.l., frt. alld. | lb. | .24 | - — |
| l.c.l., frt. alld | lb. | .25 | - — |
| tanks, frt. alld | lb. | .23 | - — |
| Dimethylethanolamine, dms., c.l., dlvd | lb | 1.43 | - — |
| l.c.l. dlvd | lb | 1.45 | - — |
| tanks, dlvd | lb | 1.40 | - — |
| Dinitroanilin dms., frt. equald | lb. | .54 | - .57 |
| Dinitrobenzene, crude, dms | lb. | .18 | - — |
| purified, dms | lb. | .19½ | - — |
| Dinitrochlorobenzene, dms., c.l., frt. alld. E | lb. | .16¼ | - — |
| l.c.l., frt. alld. E | lb. | .17¼ | - — |
| tanks, frt. alld. E | lb. | .15¼ | - — |
| Dinitrophenol, bbls | lb. | .31 | - — |
| Dinitrotoluene oily, dms | lb. | .09½ | - — |
| refd., dms | lb. | .19 | - — |
| Dinonylnaphthalene c.l., dms., work | lb. | .13 | — |
| l.c.l. dms. works | lb. | .14 | — |
| tanks works | lb | .12 | — |
| Dioctyl adipate dms. c.l., works, frt. alld | lb. | .42 | - .43¼ |
| l.c.l., same basis | lb. | .43 | - .44¼ |
| tanks, same basis | lb. | .40½ | - .41½ |
| Phthalate, dms., c.l., frt. alld. | lb. | .38½ | - .39¾ |
| l.c.l., frt. alld | lb. | .40½ | - .40¾ |
| tanks, frt. alld | lb. | .38 | - — |
| Diorthotolylguanidin dms. ton lots, dlvd | lb. | .52 | - — |
| smaller lots, dlvd | lb. | .53 | - — |
| Dioxan, dms. c.l. frt. alld | lb. | .25 | — |
| l.c.l. same basis | lb. | .25½ | - — |
| tanks, same basis | lb. | .23½ | - — |
| Dip oil (see tar acid oil) | | | |
| Dipentaerythritol bgs. l.c.l. works | lb. | .35 | - — |
| Dipentene, dest.-dist., dms., extra, c.l., works, South | gal. | .38 | - — |
| l.c.l. | gal. | .39 | - — |
| l.c.l., whse., N. Y. | gal. | .58 | - — |
| steam-dist. dms. c.l., works, south | gal. | .35 | - — |
| l.c.l., works, South | gal. | .46 | - — |
| dlvd. N. Y. | gal. | .52 | - — |
| Diphenyl, bbls., c.l., works | lb. | .18 | - — |
| l.c.l., works | lb. | .19 | - .20 |
| Oxide, perfume grade, cns | lb. | .53 | - .91 |
| Phthalate, dms., c.l., works | lb. | .45 | - — |
| l.c.l., same basis | lb. | .47 | - — |
| Diphenylamine, refined, gran., bbls., c.l. | lb. | .26 | - — |
| l.c.l., works | lb. | .28 | - — |
| tankcars, works | lb. | .23 | - — |
| tech., tankcars, works | lb. | .22 | - — |
| Diphenylguanidin, dms., ton lots | lb. | .43 | - — |
| smaller lots | lb. | .44 | - — |
| Diphenylhydantoin-sodium, USP dms. | lb. | 4.00 | - 4.25 |
| Dipropyleneglycol, dms., c.l., frt. alld | lb. | .15¼ | - .15¾ |
| l.c.l., same basis | lb. | .16¼ | - .16¾ |
| tanks, same basis | lb. | .13½ | - .14 |
| Methylether, dms., c.l., frt. equald. | lb. | .19¾ | - — |
| l.c.l., same basis | lb. | .20¾ | - — |
| tanks, same basis | lb. | .18¼ | - — |
| Ditertiarybutylmetacresol, dms., c.l., works | lb. | .33 | - — |
| l.c.l., works | lb. | .33 | - — |
| tanks, works | lb. | .31 | - — |
| Ditertiarybutylparacresol, dms., c.l., works | lb. | .91 | - — |
| l.c.l. works | lb. | .95 | - — |
| Divi-divi 43% tannin, bgs., bls., c.l., U. S. ports, ex dock | ton. | No stocks. | |
| Divinylbenzene, 20-25% dms., c.l., works | lb. | .20 | - — |
| l.c.l., works | lb. | .21 | - — |
| tanks, works | lb. | .19 | - — |
| 40-50%, on 100% basis, dms., c.l., works | lb. | 1.25 | - — |
| l.c.l., works | lb. | 1.35 | - — |
| tanks, works | lb. | 1.20 | - — |
| Dodecyltoluene dms., c.l., works | lb. | .14 | - — |
| l.c.l., works | lb. | .15 | - — |
| tanks works | lb | .13 | - — |
| Doggrass root dom., cut, bls | lb. | .20 | - .24 |
| imp., NF, cut, bls | lb. | .28 | - .30 |
| Dogwood bark, Jamaica | lb. | .11 | - .13 |


From SHELL CHEMICAL

# DTBP

(Di-Tertiary-Butyl Peroxide)

$(CH_3)_3C\text{-}O\text{-}O\text{-}C(CH_3)_3$

## Stable polymerization catalyst ... at a new lower price

Shell DTBP provides many unique advantages as a catalyst for moderately high-temperature resin polymerization. Now the economy of reduced cost has been added to these qualities:

**Stability** ... DTBP is insensitive to shock ... can be stored without composition change or danger of explosion. Its decomposition rate is uniform ... governed entirely by the temperature of operation, independent of kind of monomer, prepolymer, or reaction medium.

**Color and Clarity** ... DTBP leaves no color forming bodies, no acid residue ... helps to produce lighter colored polymers ... particularly suitable for styrenated alkyds, polystyrene and styrenated oils.

**Ease of Handling** ... no special precautions required ... non-corrosive and readily soluble, not only in most resin monomers, but also in viscous partial polymers.

**High Catalytic Efficiency** ... a high degree of conversion from monomer to polymer is obtained with DTBP per unit weight of catalyst.

DTBP is available in commercial quantities, *and is shipped in 1-gallon, 5-gallon and 15-gallon containers.*

**PROPERTIES of DTBP**

| | |
|---|---|
| Molecular Wt. | 146.22 |
| Spec. Gravity, 20°/4°C. | 0.7940 |
| Refractive Index, 20/D. | 1.3890 |
| Melting Point, °C. | —40.0 |
| Boiling Point, °C (760 mm.) | 111 |
| Flash Point (Tag Open Cup), °F. | 65 |
| Solubility in water, 20°C (wt. %) | ca. 0.01 |

**Samples available. Technical literature and a sample of DTBP for your own evaluation will be sent on receipt of your letterhead request.**

SHELL CHEMICAL CORPORATION

CHEMICAL PARTNER OF INDUSTRY AND AGRICULTURE

Eastern Division: 500 Fifth Avenue, New York 18 • Western Division: 100 Bush Street, San Francisco 6

Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit • Newark


| | | | |
|---|---|---|---|
| Dragon's blood, drops, cs | lb. | .43 | - .47 |
| mass, cs | lb. | .90 | 1.00 |
| reeds, cs | lb. | 1.75 | 2.00 |

**Dyes, coaltar, certified colors for food, drugs and cosmetics. 5 lb. and 1-lb lots. dlvd.:—**

| | | | |
|---|---|---|---|
| Blue, FD&C, No. 1, cns | lb. | 17.00 | -17.60 |
| No. 2, cns. | lb. | 17.00 | -17.60 |
| Green, FD&C, No. 1, cns. | lb. | 17.00 | -17.60 |
| No. 2, cns. | lb. | 22.20 | -22.85 |
| No. 3, cns. | lb. | 35.25 | -35.90 |
| Orange, FD&C, No. 1, cns. | lb | 3.65 | 3.75 |
| No. 2, cns. | lb | 4.65 | 4.75 |
| Red, FD&C, No. 1, cns. | lb | 7.55 | 7.95 |
| No. 2, cns. | lb | 4.00 | 4.10 |
| No. 3, cns. | lb. | 22.20 | -22.85 |
| No. 4, cns. | lb | 7.20 | 7.50 |
| No. 32, cns. | lb | 5.30 | 5.40 |
| Violet, FD&C, No. 1, cns. | lb. | 17.00 | -17.60 |
| Yellow, FD&C, No. 1, cns. | lb. | 10.50 | -11.05 |
| No. 3, cns. | lb | 3.30 | 3.40 |
| No. 4, cns. | lb | 3.30 | 3.40 |
| No. 5, cns. | lb | 4.00 | 4.10 |
| No. 6, cns. | lb | 4.00 | 4.10 |

**Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb lots, dlvd:—**

| | | | |
|---|---|---|---|
| Black, D&C, No. 1, cns | lb. | 10.95 | - — |
| Blue, D&C, No. 4, cns | lb. | 13.55 | - — |
| Brown, D&C, No. 1, cns. | lb. | 16.10 | - — |
| Green, D&C, No. 5, cns. | lb. | 16.10 | - — |
| No. 6, cns. | lb. | 16.10 | - — |
| No. 7, cns. | lb | 14.50 | - — |
| Orange, D&C, No. 3, cns. | lb. | 10.95 | - — |
| No. 4, cns. | lb. | 20.05 | - — |
| No. 5, cns. | lb | 5.70 | - — |
| No. 10, cns. | lb. | 20.70 | - — |
| Red, D&C, No. 8, cns. | lb | 3.75 | - — |
| No. 9, cns. | lb | 3.75 | - — |
| No. 10, cns. | lb | 3.00 | - — |
| No. 11, cns. | lb | 2.25 | - — |
| No. 12, cns. | lb | 3.00 | - — |
| No. 17, cns. | lb | 10.95 | - — |
| No. 18, cns. | lb. | 24.00 | - — |
| No. 19, cns. | lb. | 20.05 | - — |
| No. 21, cns. | lb | 4.70 | - — |
| No. 22, cns. | lb. | 10.95 | - — |
| No. 28, cns. | lb. | 24.65 | - — |
| No. 33, cns | lb | 17.45 | - — |
| Violet, D&C, No. 2, cns | lb. | 16.10 | - — |
| Yellow, D&C, No. 7, cns. | lb | 10.95 | - — |
| No. 8, cns. | lb | 10.95 | - — |
| No. 10, cns. | lb | 13.50 | - — |
| No. 11, cns. | lb | 13.50 | - — |
| No. 22, cns. | lb | 9.15 | - — |
| No. 33, cns. | lb. | 14.65 | - — |
| No. 37, cns. | lb. | 13.55 | - — |

**Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots works 25-50 lb lots, dlvd:—**

| | | | |
|---|---|---|---|
| Blue, Ext. D&C, No. 1, cns | lb. | 16.10 | - — |
| Green, Ext. D&C, No. 1 cns | lb. | 16.10 | - — |
| Red, Ext. D&C, No. 1, cns | lb. | 13.50 | - — |
| Yellow Ext D&C No 1 cns | lb. | 10.95 | - — |

**Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).**

| | | | | |
|---|---|---|---|---|
| 20 | Orange AD | lb. | .64 | - — |
| 27 | Fast light orange 2G | lb. | .76 | - — |
| 31 | Phloxine 2G | lb. | .64 | - — |
| 36 | Alizarine yellow 2G | lb. | .83 | - — |
| 40 | Orange R extra, conc. | lb. | 1.06 | - — |
| 57 | Fuchsine 6B | lb. | .57 | - — |
| 79 | Scarlet 2R | lb. | .74 | - — |
| 151 | Orange V | lb. | .47 | - — |
| 161 | Orange RR | lb. | .55 | - — |
| 176 | Fast red A, conc. | lb. | .90 | - — |
| 179 | Azo rubine XX, conc. | lb. | 1.04 | - — |
| 180 | Blue F4B | lb. | .92 | - — |
| 185 | Brilliant scarlet 3RN, conc | lb. | .93 | - — |
| 202 | Chrome blue black, conc. | lb. | .68 | - — |
| 203 | Chrome black T | lb. | .71 | - — |
| 208 | Fast blue SR | lb. | .91 | - — |
| 216 | Chrome red B | lb. | .84 | - — |
| 234 | Resorcin brown | lb. | .89 | - — |
| 246 | Blue black, extra, conc. | lb. | .86 | - — |
| 275 | Milling red 3R, conc. | lb. | 2.03 | - — |
| 289 | Navy blue 3R, conc., 125% | lb. | 1.09 | - — |
| 299 | Black F, conc | lb. | 1.40 | - — |
| 304 | Neutral black 2B, conc, 200% | lb. | 2.01 | - — |
| 326 | Fast scarlet 4BNC | lb. | 1.64 | - — |
| 332 | Bismarck brown RX, conc | lb. | .86 | - — |
| 365 | Brilliant yellow, conc. | lb. | 2.34 | - — |
| 382 | Scarlet B | lb. | 1.65 | - — |
| 401 | Diazo black, BHD | lb. | .63 | - — |
| 406 | Blue, 2B, extra, conc. | lb. | 1.07 | - — |
| 419 | Diamine fast red FC | lb. | 1.12 | - — |
| 420 | Diamine brown M | lb. | .90 | - — |
| 448 | Benzo purpurine 4B conc. | lb. | 1.18 | - — |
| 518 | Diamine sky blue FF extra conc., 150% | lb. | 2.25 | - — |
| 561 | Trisulphon brown BCW, conc | lb. | 2.03 | - — |
| 581 | Direct black E, double | lb. | .89 | - — |
| 593 | Diamine green BXN conc. 150% | lb. | .97 | - — |
| 598 | Congo brown GG, conc. 150% | lb. | 1.46 | - — |
| 620 | Stilbene yellow G, conc | lb. | .92 | - — |
| 639 | Xylene light yellow GX | lb. | 1.79 | - — |
| 640 | Tartrazine conc | lb. | 1.46 | - — |
| 655 | Auramine conc | lb. | 1.85 | - — |
| 657 | Victoria green, sml. cryst. | lb. | 2.10 | - — |
| 662 | Brilliant green cryst | lb. | 2.79 | - — |
| 667 | Brilliant milling green B conc. | lb. | 3.68 | - — |
| 671 | Brilliant blue E | lb. | 1.73 | - — |
| 680 | Methyl violet S, conc. | lb. | 1.10 | - — |
| 681 | Crystal violet powder | lb. | 2.15 | - — |
| 698 | Formyl violet S4B | lb. | 1.58 | - — |
| 720 | Chrome azure blue BR conc. 200% | lb. | 3.75 | - — |
| 729 | Victoria blue B conc | lb. | 2.79 | - — |
| 739 | Green SN extra | lb. | 2.41 | - — |
| 749 | Rhodamine B extra | lb. | 4.33 | - — |
| 814 | Fast yellow NNL conc. 175% | lb. | 3.11 | - — |
| 841 | Safranine T extra, conc., 125% | lb. | 2.90 | - — |
| 863 | Nigrosine WSJ | lb. | .68 | - — |
| 922 | Methylene blue ZX | lb. | 1.55 | - — |
| 969 | Sulphanthrene blue GR paste. | lb. | .76 | - — |
| 978 | Sulphogene carbon HCF grains | lb. | .32 | - — |
| 1034 | Alizarin red S, conc | lb. | 2.59 | - — |
| 1054 | Anthraquinone blue B | lb. | 2.91 | - — |
| 1078 | Anthraquinone green G | lb. | 2.72 | - — |
| 1085 | Alizarin blue black B | lb. | 2.33 | - — |
| 1096 | Indanthrene golden orange G, single paste | lb. | 2.00 | - — |
| | double paste | lb. | 4.00 | - — |
| 1099 | Indanthrene dark blue BO, single paste | lb. | 1.75 | - — |
| 1101 | Brilliant green B, double paste | lb. | 2.38 | - — |
| 1106 | Indanthrene blue RS, double paste | lb. | 2.57 | - — |
| 1113 | Indanthrene blue GCD, double paste | lb. | 1.75 | - — |
| 1150 | Indanthrene olive R, single paste | lb. | 1.10 | - — |
| 1151 | Indanthrene brown R, single paste | lb. | 1.68 | - — |
| | double paste | lb. | 3.35 | - — |
| 1212 | Sulphanthrene red violet 2RN, single paste | lb. | 1.62 | - — |
| 1217 | Sulphanthrene orange R, single paste | lb. | 1.65 | - — |
| p-4 | Acid anthracine brown PGN. | lb. | 2.31 | - — |
| p-14 | Anthracene chromate brown EBN | lb. | 1.31 | - — |
| p-24 | Benzo fast black L conc., 150% | lb. | 2.18 | - — |
| p-80 | Diazo brilliant scarlet ROA | lb. | 2.79 | - — |
| p-202 | Zambesi black V | lb. | 1.06 | - — |
| p-244 | Celliton scarlet B | lb. | 1.31 | - — |
| p-313 | Naphthol AS-SW | lb. | 2.42 | - — |

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.
Black, blue, No. 550 lb. .81 - —
Jet, No. 551 lb. .89 - —
Brown, R, conc lb. 1.72 - —
Orange R, brilliant lb. .90 - —
Red 4 B, conc lb. 1.37 - —
Yellow, C lb. 1.18 - —
FN, conc lb. 1.22 - —

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works.
Auramine, O lb. 1.85 - —
Black, basic, blue lb. 1.21 - —
Jet lb. 1.21 - —
Blue, methylene, 2 B, conc lb. 1.55 - —
Brown, Bismarck, R, conc lb. .86 - —
Chrysodine, R, extra lb. .60 - —
Y, extra lb. .64 - —
Fuchsine, conc lb. 3.08 - —
Green, malachite, conc lb. 2.10 - —
Rhodamine, E lb. 4.33 - —
Safranine, Y, conc lb. 2.90 - —
Violet, methyl, B lb. 1.10 - —

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works.
Azo rubine R, extra, conc lb. 1.04 - —
Black, acid blue, B, extra lb. .86 - —
Orange, Acid, Y, conc lb. .47 - —
Scarlet, croceine, MOO lb. 1.45 - —
Yellow, azo-, conc lb. .90 - —
Fast light, 3 G, extra lb. 2.04 - —
Methanil, conc lb. .91 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

## E

Echinacea root, bls lb. .45 - .55
Egg albumen (see Albumen).
Yolk, dried, dom., bbls lb. 1.14 - 1.16
Chinese, spot, bbls, duty paid lb. .87 - .90
tanners, bbls lb. .06½ - .07
Elder flowers, bright, bls lb. .45 - .50
Elecampane root, bls lb .22 .25
Elm bark, grinding, bls lb. .30 .35
powd., bbls., bxs lb. .40 - .45
select, bndls lb .55 .60
Emetine hydrochloride USP bots oz.37.50 -40.00
Ephedra herb, bls lb. .30 .32
Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs oz. .98 - —
nydrous, bots., 100 ozs oz. .92 - —
Hydrochloride, tin, 100 ozs oz. .75 - —
Sulphate, cryst., tins, 100 ozs. oz. .72 - —
powd, tins 100 ozs oz. .73 - —
Epichlorohydrin, dms., c.l., works lb. .36¾ - —
l.c.l., works lb. .37½ - —
tanks, works lb. .35 - —
Epinephrine, synth., USP, bots., 100 grams gram .50 - .60
Epsom salt, tech, bgs, c.l., works, 100 lbs 2.15 - —
l.c.l., works 100 lbs 2.90 - 3.15
USP, cryst., bgs., c.l., works 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 with-drawal 100 lbs. 3.10 - —
smaller lots 100 lbs 3.35 - —
Ergosterol, unirradiated, cryst kilo.140.00 - —
Ergot, NF, dms., tin-lined lb. 6.50 Nom.
Eserine, bots. oz.45 00 -50.00
Salicylate, USP, bots oz.33.00 -34.00
Sulphate, bots. oz.32.00 -36.00
Ether, acetate (see Ethyl acetate).
Butyl, dms., c.l., works lb. .32½ - —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —
Butyric (see Ethyl butyrate).
Dichloroethyl, purif., dms., frt. equald lb. .14 - —
l.c.l., same basis lb. .14½ - —
tanks, same basis lb. .13 - —
technical, dms., c.l., works lb. .13 - —
l.c.l., works lb. .13½ - —
tanks, works lb. .12 - —
Divinyl, USP, anesthesia, bots., 50 cc, hospitals bot. 1.00 - —
75 cc, hospitals bot. 1.56 - —
NF, dms., dlvd lb. .25 - —
Ethyl, absolute, ACS, dms. lb. .30 - —
anesthesia, USP hospital cns. lb 75 .90
Industrial, USP dms, c.l., dlvd. lb. .14 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .12 - —
synthetic, dms., incl., dlvd. East. lb. .14 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .12 - —
Isopropyl, dms., c.l., dlvd lb. .06¼ - —
l.c.l., dlvd lb. .07 - —
tanks, dlvd. lb. .04½ - —
Nitrous, conc, bots, 100 lbs lb 1.03 1.10
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld. lb. .15¾ - .18¾
l.c.l., frt. alld lb. .16¾ - .19¾
tanks, frt. alld lb. .14 - .17½
95-98%, dms., c.l., frt. alld. lb. .16¼ - .19
l.c.l., frt. alld lb. .17¼ - .20
tanks, frt. alld lb. .14½ - .17¾
99%, dms., c.l., frt. alld. lb. .16¼ - .19¼
l.c.l., frt. alld lb. .17¼ - .20¼
tanks, frt. alld lb. .14½ - .18
NF, dms., frt. alld lb. .24 - .25
synthetic, 85-90%, dms., c.l., frt. alld. lb. .13¾ - —
l.c.l., frt. alld lb. .14¾ - —
tanks, frt. alld lb. .12 - —
95-98%, c.l., frt. alld lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, frt. alld lb. .12¼ - —
99%, dms., c.l., frt. alld. lb. .14¼ - —
l.c.l., frt. alld lb. .15¼ - —
tanks, frt. alld lb. .12½ - —
Acetoacetate, dms., c.l., dlvd lb. .47½ - —
l.c.l., dlvd. lb. .48½ - —
tanks, dlvd. lb. .46 - —
Acrylate, dms., c.l., and truckload, works lb. .49 - —
less than truckload, works lb. .49½ - —
tanks, works lb. .48 - —
Benzoate, dms lb. .70 - .75
Betaethoxypropionate dms. works lb. .70 —
Bromide, tech., 98%, dms lb .39 .41
Butyrate, bots gal. 5.10 - 6.00
cns, works lb. .68 - .87
dms, works lb .60 —
Carbamate (see Urethane).
Chloride, tech, dms., c.l., frt. alld. E. lb. .16 - .18
l.c.l., same basis lb. .18 - .20
tanks, same basis lb. .13½ - —
USP, bbls., cyl lb. .20 .22
Cinnamate, cns lb. 2.25 - 2.50
Formate, dms lb. .55 .65
Gallate, dms., 100 lb. to 1,000 lb. lots, works lb. 3.90 - 4.40
Iodide, bots., works lb. 3.88 - 4.27
Lactate, dms., works lb. .42¼ - —
Methacrylate, dms., c.l and truckload, works lb .50 - —
less than truckload, works lb. .50½ - .60
Nitrite (see Ether nitrous)
Oenanthate, dms lb. .95 1.50
Oleate, dms., l.c.l., works lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate, dist (see Tetraethyl-orthosilicate).
40% available SiO, dms. works lb 53 - —
Ethylphanaphthylamine (see Monoethylalphanaphthylamine).
Ethylanilin dms. frt. alld lb. 50 - —
Ethylbenzene, dms., c.l lb. 14 - —
l.c.l lb 15 - —
tanks lb 13 - —

Ethylbutyl ketone dms., c.l., works, lb. .31½ - —
l.c.l., works lb. .32 - —
tanks lb. .30 - —
Ethylcellulose, 6b dms, 5,000 lbs., works lb. .54 - —
smaller lots, works lb. .56 - .64
Ethylene dichloride, dms, c.l., works, frt alld E. of Rockies lb. .10¾ - —
l.c.l., works frt alld E of Rockies lb. .11¾ - —
tanks, frt. alld., E. Rockies lb. .09 - —
Prices West of Rockies, 1c. per lb. higher.
Oxide, cyls., c.l., frt, equald lb. .25¼ - —
l.c.l., frt. equald lb. .26¼ - —
tanks, frt. dlvd lb. .13¼ - —
Trichloride (see Trichloroethane)
Ethylenediamine, dms, c.l., works lb. 42 - —
l.c.l., works lb. 42½ - —
tanks, works lb 40 - —
Ethyleneglycol dms, c.l., frt alld. E lb. .17¾ - —
l.c.l., same basis lb. .18¾ - —
tanks, same basis lb. .16 - —
Diethylether, dms, c.l., works lb. .55 - —
Monobutylether, dms., c.l., works lb. .21¾ - —
l.c.l., works lb. .22¾ - —
tanks, works lb. .20 - —
Monoethylether, dms., c.l., works. lb. .19¼ - —
l.c.l., works lb. .19¾ - —
tanks, works lb. .17½ - —
Monoethylether acetate, dms., c.l., works lb. .18¼ - —
l.c.l., works lb. .18¾ - —
tanks, works lb. .16½ - —
Monomethylether, dms., c.l., works. lb. .20¾ - —
l.c.l., works lb. .21¼ - —
tanks, works lb. .19 - —

Ethyleneglycol monomethylether acetate, dms., c.l., works, lb. .25¾ - —
l.c.l., works lb. .26¼ - —
tanks, works lb. .24 - —
Monostearate, dms lb. .33 - —
Ethylethanolamines, mixed, dms., c.l., frt. alld., E. Miss lb. .33¾ - —
l.c.l., same basis lb. .34¾ - —
tanks, same basis lb. .32 - —
Ethylmorphine hydrochloride, USP, bots oz.11.85 - —
Ethylorthotoluidine (see Monoethyl-orthotoluidine).
Ethylvanillin cns, 3 lbs or more lb 6.75 - —
smaller lots lb 6.80 6.90
Eucalyptol, USP, cns., dms lb. 1.75 - 2.25
Euphorbia, pil, herb, bls lb. .16 - .18
Eugenol, pure, USP, cns lb. 2.60 - 3.42
Euphorbia, herb, bls lb. .18 - .20

## F

Feldspar enamel, 100 mesh, bgs., works ton.20.00 -22.00
Glass, 20 mesh, bulk, tons, works. ton.11.75 -12.50
Pottery, bgs., ton lots, works ton.20.00 -22.00
bulk, c.l., works ton.18.00 -20.00
Fennel seed, Czech., dark, bgs. lb. .11½ - .12
French, bgs lb. .13 - .14
Indian, bgs. lb. .14 - .15
Fenugreek seed, domestic, bgs lb. No stocks.
Indian, bgs lb. .11 - .11¼
Moroccan, bgs. lb. .06¼ - .07
Syrian, bgs lb. .06¾ - .07
Ferric-ammonium citrate (see iron-ammonium citrate)



Ferric cacodylate (see iron cacodylate).
Ferric glycerophosphate (see iron-glycerophosphate).
Ferric hypophosphite (see iron hypophosphite)
Ferric sulphate (see iron sulphate, ferric).
Film scrap, colored, cs., works lb. .11½ - —
water-white, cs., works lb. .13½ - —
Fir balsam Canada, cns gal 31.50 -32.50
Oregon, bbls. gal. 2.55 - 2.60
Fishberries, bgs lb .20 .25
Fishliver oil (see Oil, fishliver).
Fishmeal, ground, 60% protein, bgs. Balto, area ton.127.50 -130.00
Fishscrap, dried 60% protein, bulk, Balto, area ton.122.50 - —
Fluorspar, acid grade bgs, c.i. mines ton 47 50 - —
l.c.l., mines ton 49 50 - —
bulk, contract c.l. mines ton 42 00 - —
noncontract, c.l. mines ton 45 00 - —
l.c.l., mines ton 47 00 - —
ceramic grade, No. 1, ground 90-92% $CaF_2$, bulk c.l. mines net ton.37.00 - —
powd, 90-92% ton.41 00 - —
foundry grade, lump, 55-60% ton.34 00 - —
washed, gravel, 70% or more, $CaF_2$, bulk, c.l., mines ton.37.00 - —
65%, bulk, c.l., mines ton.36.00 - —
60%, bulk, c.l., mines ton.34.00 - —
less than 60% bulk c.l. mines ton.32.00 -34.00


# OVER 1000 pharmaceutical houses buy MORE THAN 900 pharmaceutical chemicals FROM Mallinckrodt®

THESE Pharmaceutical Manufacturers know where to go whenever they need chemicals.

They buy not one or two chemicals, but often hundreds of different chemicals from Mallinckrodt.

Four typical Pharmaceutical Manufacturers shown below purchased an average of 133 different chemicals from Mallinckrodt in a year's time. Look at the variety of their purchases. Then you'll see one of the many reasons why they like to do business with Mallinckrodt.

| ITEM or GROUPS of ITEMS | MANUFACTURER A | MANUFACTURER B | MANUFACTURER C | MANUFACTURER D |
|---|---|---|---|---|
| BISMUTHS | X | X | X | X |
| BROMIDES | X | X | X | X |
| CINCHONA SALTS | X | X | | X |
| GLUCONATES | | X | | X |
| IODIDES | X | X | X | X |
| IRON SALTS | X | X | X | X |
| MAGNESIUM TRISILICATE | | | | X |
| MANDELATES | | X | X | X |
| MERCURIALS | X | X | X | X |
| PHENOBARBITALS | X | X | | X |
| PHENOLSULFONATES | | X | X | X |
| SALICYLATES | X | X | X | X |
| STEARATES | X | X | X | X |
| SULFA DRUGS | | X | X | |
| VITAMINS | X | X | | |
| OTHERS | | | | |

Uniform Dependable Purity

53 Years of Service to Chemical Users

MALLINCKRODT CHEMICAL WORKS
Mallinckrodt Street, St. Louis 7, Mo.
72 Gold Street, New York 8, N. Y.

CHICAGO • CINCINNATI • CLEVELAND • LOS ANGELES • MONTREAL • PHILADELPHIA • SAN FRANCISCO

## Formaldehyde—Gum, Copal, Manila

Formaldehyde, USP, (inhibited), dms., c.l., E. works lb. .0600- .0625
l.c.l., E. works lb. .0650- .0675
tanks, E. works lb. .0395- .0420
methanol-free (uninhibited), tanks, works lb. .0375- .0400

Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N J. Eastern Penna., and part of Delaware in states other than Eastern Seaboard as well as W of Rockies, prices f.o.b. Texas plants, are .0245 for inhibited and .0225 for uninhibited.

Fleaseed (see Psyllium seed).
Fringetree bark, bls lb. .53 - .56
Fuller's earth dom. powd., bgs. c.l., Fla., Ga mines ton.30.00 - —
l.c.l. works ton.27.00 - —
spent, bulk, Bayonne ton 2.00 - 4.00
imported, bgs. c.l ton.30.00 -40.00
Furfural, tech., dms., c.l., works lb .12 - —
l.c.l. works lb .14 - —
tanks works lb 09½ - —
Fusel oil, refined, dms., c.l., dlvd. lb. .28¾- .29¼
l.c.l. dlvd. lb. .29¾- .30¼
tanks, dlvd. lb. .27 - .28
Fustic extract, cryst. No 1, bbls., l.c.l lb. 42½- —
No 1A bbls. l.c.l lb 41½- —
No 2, bbls., l.c.l lb .40½- —
No 3, bbls., l.c.l lb .38½- —
liquid No. 0, bbls., l.c.l lb 22 - —
No 1 bbls. l.c.l lb .20½- —
No 2, bbls., l.c.l lb .19½- —
No 3, bbls., l.c.l lb 17 - —
solid No. 1, bxs., l.c.l lb. 39 - .40

## G

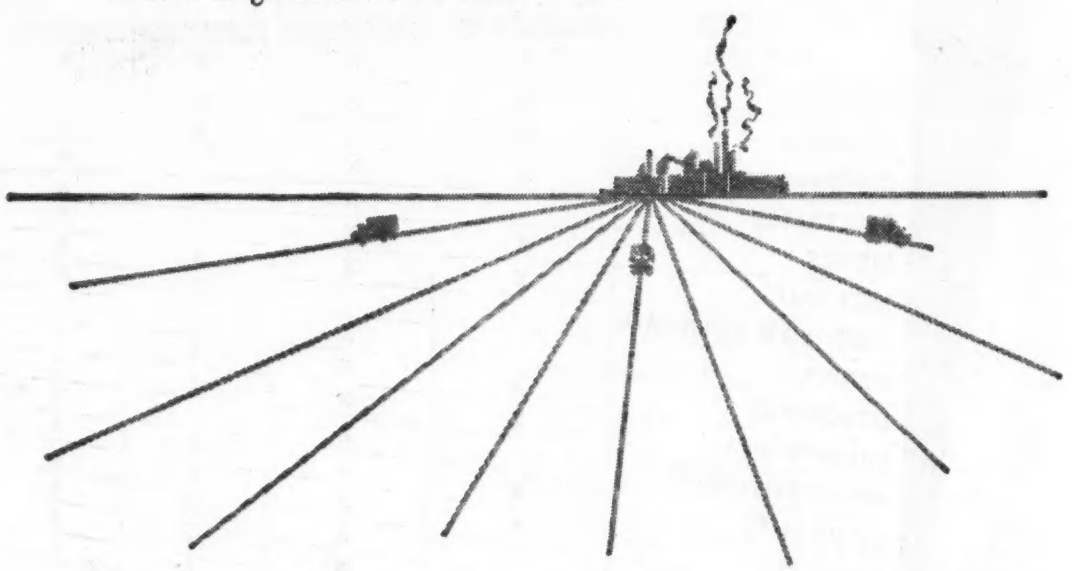
G salt, bbls, frt. alld lb. .66 - —
Galangal root, bls lb. .18 - .25
Gambier, plantation, bgs., ex dock lb. No stocks.
Extract, bbls No stocks.
Gammapicoline, 95%, dms., c.l., works lb 1.00 - 1.05
Gasoline, at refinery, ex tax, Arkansas, 80 octane, tanks gal. .1075- —
N. Y. Harbor, 83 octane, tanks gal. .1285- .136
Gulf coast, 82 octane, tanks gal. .105 - .11
Group 3, 82 octane, tanks gal. .10375- .1075
Pennsylvania, western, U. S. motor, 83 octane, tanks gal. .124 - .13
natural, 26-70 octane group 3, tanks gal. .06375- —
Gelatin, silver label, imported, cs lb. 1.15 - —
Gelsemium root, bls lb. .30 - .32
Gentian root, bls lb. .16 - .18
grd., bbls., bxs lb. .20 - .22
powd., bbls., bxs lb. .21 - .23
Geraniol, extra, cns., dms lb. 2.60 - 3.20
prime, cns., dms lb. 2.20 - 2.40
Geranyl acetate, cns lb. 2.60 3.00
Ginger, oleoresin, NF, from African root, bots lb. 7.75 9.50
from Jamaican root, bots lb.10.50 -14.00
Root, African, bls lb. .38 - .39
Cochin, bleached, bgs., futures, lb. No stocks.
unbleached, bgs. lb. .50 - .51
Ginger root, Jamaica, No. 1, bgs lb. .63 - .64
No. 2, bgs lb. .62 - .63
No. 3, bgs lb. .61 - .62
January-March shipment, lb. .46 - .47
Rhattoon, bgs lb. .50 Nom.
Nigerian, split, bgs lb. .36 - .37
Ginseng root cs lb.13.00 -16.00
Glauber's salt, anhyd. (see Sodium sulphate).
cryst., bgs., c.l., works, frt. alld. ton.45.00 - —
l.c.l., works ton.50.00 - —
Glue, bone, calcium type 24 millipoise, 40 jellygrams, bgs., c.l., East of Midwest lb. .20½- —
65 jellygrams, bgs., c.l., same basis lb. .22½- —
80 jellygrams, bgs., c.l., same basis lb. .24 - —
110 jellygrams, bgs., c.l., same basis lb. .25 - —
130 jellygrams, bgs., c.l., same basis lb. .26 - —
Over 150 jellygrams, bgs., c.l., same basis lb. .27 - —
Bone glue, l.c.l., 1c. per lb. higher than c.l.
ground, 65 jellygrams, bgs., c.l., (50,000 lbs.), dlvd lb. .22½- —
l.c.l., same basis lb. .23½- —
Hide, 100-121 (jellygrams), bgs., c.l., dlvd lb. .26 - .28
122-149, bgs., c.l., dlvd lb. .27 - .30
150-177, bgs., c.l., dlvd lb. .28 - .31
178-206, bgs, c.l., dlvd lb. .29 - .33
207-236, bgs., c.l., dlvd lb. .30 - .34
237-266, bgs., c.l., dlvd lb. .31 - .35
267-296, bgs., c.l., dlvd lb. .32 - .36
299-330, bgs., c.l., dlvd lb. .33 - .37
331-362, bgs., c.l., dlvd lb. .34 - .37
363-394, bgs., c.l., dlvd lb. .35 - .38
Glue, hide, 395-427, bgs., c.l., dlvd lb. .36 - .39
428-460, bgs., c.l., dlvd lb. .37 - .40½
461-494, bgs., c.l., dlvd lb. .38 - .42
495-529, bgs., c.l., dlvd lb. .39 - .43
Hide glue, l.c.l., prices 1c. higher than c.l. bbls. ½c. more than bgs.
Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd lb. .50 - .55
soaplye, 80%, tanks, dlvd lb. .45 - .50
dynamite dms., c.l., dlvd lb. .49 - .55
l.c.l., dlvd lb. .49½- .55½
tanks, dlvd lb. .48½- .54½
high gravity, dms., c.l., dlvd lb. .49¼- .55
l.c.l., dlvd lb. .49¾- .55½
tanks, dlvd lb. .48¾- .54½
refined, BP, 98%, dms., c.l., dlvd lb. .50½- .57
l.c.l., dlvd lb. .51 - .57½
tanks, dlvd lb. .50 - .56½
USP, c.p., 95%, dms., c.l., dlvd lb. .49¾- .55½
l.c.l., dlvd lb. .50¼- .56
tanks, dlvd lb. .49¼- .55
yellow, distilled, dms., c.l., dlvd lb. .49½- .54⅞
l.c.l., dlvd lb. .49⅝- .55⅜
tanks, dlvd lb. .48⅜- .54⅜
Glycine USP (see Acid, aminoacetic).
Glyoxal, 30%, dms., c.l., works lb. .18½- —
l.c.l., works lb. .19 - —
tanks, works lb. .18 - —
Gold chloride, acid-brown, bots oz.22.50 -23.00
acid-yellow, bots oz.20.50 - —
Gold of pleasure seed bgs., futures lb. .13 - .13½
Goldenseal root, bls lb. 4.00 - 4.25
powd., bxs lb. 4.50 - 4.75
Gold-sodium chloride, photo, bots. oz.13.00 -14.00
USP (X), bots oz.14.50 -15.50
Grains of paradise, bgs lb. .42 - .45
Graphite, imported, amorph, powd., bgs., dlvd lb. No prices.
crystalline, 88-90%, powd., bgs., ex whse lb. No prices.
90-92%, powd., bgs., ex whse, lb. No prices.
97%, powd., bgs., ex whse lb. No prices.
flake, No 1 90-95%, ngs., ctns., ex whse lb. No prices.
No. 2, bgs, whse lb. No prices.
Grease, house, loose, dlvd lb. .10¾- —
White, choice, loose lb. .14 Nom.
Wool (see Degras and Lanolin).
Yellow, loose lb. .11¼- .11½
Green, brilliant, thioflavin, toner, molybdic, kgs., works lb 4.25 4.50
Tungstic, kgs. works lb. 4.25 4.50
10-20% bbls same basis lb. .38½- —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N. C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. .34 - .35
6-10%, bbls., same basis lb. .35 - .36
11-15%, bbls., same basis lb. .36 - .37
16-20%, bbls., same basis lb. .36½- .37½
21-25%, bbls., same basis lb. .37½- .38½
26-30%, bbls., same basis lb. .37¾- .38¾
31-35%, bbls., same basis lb. .38¾- .39¾
36-40%, bbls., same basis lb. .40½- .41½
41-45%, bbls., same basis lb. .42 - .43
46-50%, bbls., same basis lb. .24¼- .25¼
50% and over, bbls., same basis lb. .45¾- .46¾
reduced color, 5%, bbls., same basis lb. .12½- —
6-10% bbls., same basis lb. .13¼- —
11-13%, bbls., same basis lb. .13¾- —
14-16%, bbls., same basis lb. .14½- —
17-19% bbls., same basis lb. .14¾- —
20-21%, bbls., same basis lb. .15 - —
22-23%, bbls., same basis lb. .15¼- —
24-25% bbls., same basis lb. .15¼- —
26-27% bbls., same basis lb. .15¾- —
28-29% bbls., same basis lb. .16¼- —
30-31% bbls., same basis lb. .17¼- —
32-33% bbls., same basis lb. .18½- —
34-35% bbls., same basis lb. .19½- —
36-40% bbls. same basis lb. .41¾- —
41-45% bbls. same basis lb. .24½- —
46-50% bbls. same basis lb. .26 —
51-55% bbls. same basis lb. .25¾- —
56-60% bbls. same basis lb. .26¼- —
61-65% bbls. same basis lb. .27¼- —
66-70% bbls., same basis lb. .28½- —
Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Chromium oxide, hydrated, l.c.l., bbls., dms., frt. alld lb. .95 - 1.05
pure, c.l., bgs., frt. alld lb. .37½- .44
Dyes (see Dyes, coaltar).
Malachite (thioflavin toner, molybdic, bbls., works lb 3.00 —
Tungstic, bbls works lb 3.40 —
Paris (see P).
Phthalocyanin toner, bbls., works, lb 4.40 5.00
Tungstated, brilliant, kgs lb. 3.00 4.00
Emerald, kgs lb 2.60 -
Grindelia robusta herb, bls lb. .24 - .30
Guaiac resin, NF, cs lb. .60 - .65
ordinary, cs lb. .49 - .51
Wood, bls lb. .35 - .36
Guaiacol, cryst., tins lb. No prices.
Liquid, NF, bots., cbys lb 1.90 - 1.95
Carbonate, dms lb 2.95 - 3.00
Guarana, powd., cs lb. 1.50 - 1.75
Gum, accroides (see Gum vacca)
Aloe (see A.).
Ammoniac, tears, cs lb .90 95
Arabic, amber, sorts, bgs lb. .14½- .15
powdered USP, bbls lb 20½ 21
Asafetida (see A).
Asphaltum (see A)
Benzoin, Sumatra, cs lb. .50 - .70
Camphor (see C).
Copal, Congo No. 1, bgs lb .25 26
No. 2, bgs lb .20 .22
No. 3, bgs lb .17½ 19½
Manila, cona B, bgs lb No prices
C, bgs lb .23 .30
CBB, bgs lb .26 27
CNE bgs lb No prices.
DBB, bgs lb .25 28
DB, bgs lb 18 24
dust, bgs lb 07½ 09
soft, MA, bgs lb .19 21
WS, bgs lb No prices.


# FORMALDEHYDE

## u.s.p. 40%

New Up-To-Date Plant
with Modern Manufacturing Methods

Prompt Deliveries in our own Tank Wagons
in New England and New York Areas



NEW YORK SELLING AGENT:
RICHES-NELSON INC.
342 MADISON AVENUE
NEW YORK, N.Y.

WATSON-PARK COMPANY
ESTABLISHED 1925
BALLARDVALE, MASSACHUSETTS

| | | | |
|---|---|---|---|
| Gum, copal, Philippine, pale, chips, bgs | lb. | .22 | .24 |
| nubs, bgs | lb. | .30 | .32 |
| seeds, bgs | lb. | .19 | .21 |
| sorts, bgs | lb. | .20 | .22 |
| Pontianak, chips, bgs | lb. | .19 | .22 |
| nubs, bgs | lb. | .30 | .32 |
| Dammar, Batavia, A/E, bgs | lb. | .23 | .25 |
| dust, bgs | lb. | .06 | .10 |
| E, bgs | lb. | .12½ | .14½ |
| East India, batu, bold, bgs | lb. | .13½ | .14½ |
| nubs and chips, bgs | lb. | .07½ | .10 |
| bald, bold, bgs | lb. | .13½ | .14½ |
| unscraped, bgs | lb. | .11 | .12 |
| nubs and chips, bgs | lb. | .10 | .11 |
| pale, chips, bgs | lb. | .14 | .16 |
| nubs, bgs | lb. | .23 | .26 |
| Singapore, No. 1, bgs | lb. | .34 | .36 |
| No. 2, bgs | lb. | .23 | .25 |
| No. 3, bgs | lb. | .09½ | .11 |
| dust, bgs | lb. | .09½ | .11 |
| seeds, bgs | lb. | .12½ | .13½ |
| Elemi, cns | lb. | .23 | .24 |
| Ester, gum-rosin type, dms., c.l., dlvd, Ill., Ind., Ky., Mich., Mid-Atl. States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va | lb. | .12 | .12½ |
| wood-rosin type, dms., c.l., dlvd, Ill., Ind., etc | lb. | .12 | .12½ |
| Euphorbium, cs | lb. | .35 | .40 |
| Galbanum | lb | .75 | .80 |
| Gamboge, pipe, cs | lb. | 1.00 | 1.05 |
| powd., bbls | lb. | 1.15 | 1.20 |
| Ghatti, No. 2, bgs | lb | .35 | .37 |
| No. 3, bgs | lb | .31 | .33 |
| Guaiac (see Guaiac resin). | | | |
| Karaya, powd., No. 1, bbls | lb. | .55 | .56 |
| No. 2, bbls | lb. | .49 | .50 |
| No. 3, bbls | lb. | .44 | .45 |
| Kauri, bgs | lb. | .31½ | .32¾ |
| Locust bean, powd., bgs | lb. | .38 | .40 |
| Mastic, cs | lb | 2.25 | 2.50 |
| Myrrh, cs | lb. | .30 | .35 |
| Olibanum, siftings, cs | lb. | .12 | .13 |
| tears, cs | lb. | .16 | .30 |
| Opium (see O). | | | |
| Red (see Gum, yacca). | | | |
| Rosin (see R). | | | |
| Sandarac, cks | lb. | No stocks. | |
| Scammony, cs | lb. | 1.50 | 1.55 |
| Sterculia (see Gum, karaya). | | | |
| Talha, bgs | lb | .10 | .11 |
| Tragacanth, No. 1, cs | lb. | 3.50 | 3.75 |
| No. 2, cs | lb. | 2.30 | 2.55 |
| No. 3, cs | lb. | 2.00 | 2.25 |
| powdered, USP, bbls | lb. | 1.50 | 1.55 |
| Yacca, bgs | lb. | .06 | — |
| Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald | ton. | 22.63 | — |
| Harlem river, N. Y., frt. equald | ton. | 28.25 | — |
| Medicine Lodge, Kan., frt. equald | ton. | 17.00 | — |
| New Brighton, N. Y., frt. equald | ton. | 30.65 | — |
| Southard, Okla., frt. equald | ton. | 17.00 | — |
| Sweetwater, Tex., frt equald | ton. | 21.45 | — |
| Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald | ton. | 12.50 | — |
| Blue Rapids, Kans., frt. equald | ton. | 10.50 | — |
| Harlem river, N. Y., frt. equald | ton. | 12.00 | — |
| Medicine Lodge, Kan., frt. equald | ton. | 12.50 | — |
| New Brighton, N. Y., frt. equald | ton. | 18.00 | — |
| Saltville, Va., frt. equald | ton | 9.00 | — |
| Southard, Okla., frt. equald | ton. | 12.50 | — |
| Sweetwater, Tex., frt equald | ton. | 12.50 | — |
| Stucco, paper bgs., c.l., Akron, N. Y., frt. equald | ton. | 8.00 | — |
| Blue Rapids, Kans., frt. equald | ton. | 8.00 | — |
| Clarence Center, N. Y., frt. equald | ton. | 8.00 | — |
| Fort Dodge, Iowa, frt. equald | ton. | 8.00 | — |
| Gypsum, Ohio, frt. equald | ton. | 8.00 | — |
| Grand Rapids, Mich., frt. equald | ton. | 8.00 | — |
| Harlem river, N. Y., frt. equald | ton. | 8.00 | — |
| National City, Mich., frt. equald | ton. | 8.00 | — |
| New Brighton, N. Y., frt. equald | ton. | 8.00 | — |
| Plasterco, Ga., frt. equald | ton. | 8.00 | — |
| Portsmouth, N. H., frt. equald | ton. | 8.00 | — |
| Roton, Texas, frt. equald | ton. | 8.00 | — |
| Saltville, Va., frt. equald | ton. | 9.00 | — |
| Southard, Okla., frt. equald | ton. | 8.00 | — |
| Sweetwater, Texas, frt equald | ton. | 8.00 | — |
| Terra alba, paper bags, c.l., Harlem River, N. Y. works | ton. | 22.50 | — |
| New Brighton, N. Y., works | ton. | 21.00 | — |

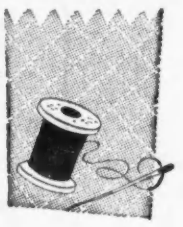
## H

| | | | |
|---|---|---|---|
| Hawthorn berries, bgs | lb. | .40 | .45 |
| Heliotropin, cryst., cns | lb. | 3.10 | 3.20 |
| Hellebore root, dom., green, bls | lb. | .85 | .90 |
| imp., black, whole bls | lb. | .25 | .30 |
| ground, bxs | lb. | .30 | .35 |
| powder, bxs | lb. | .32 | .37 |
| white, whole, bls | lb. | .25 | .30 |
| powder, bxs | lb. | .35 | .45 |
| Helonias root, bls | lb. | 1.85 | 2.10 |
| Hematine extract, cryst., No. 0, bbls., c.l. | lb. | .45½ | — |
| No. 1, bbls., c.l. | lb. | .44½ | — |
| No. 1A, bbls., c.l. | lb. | .41½ | — |
| No. 2, bbls., c.l. | lb. | .40½ | — |
| No. 3, bbls., c.l. | lb. | .38½ | — |
| No. 4, bbls., c.l. | lb. | .36½ | — |
| No. 5, bbls., c.l. | lb | .34½ | — |
| paste, No. 1, bbls., c.l. | lb. | .19 | — |
| No. 2, bbls., c.l. | lb. | .18 | — |
| No. 3, bbls., c.l. | lb. | .17 | — |
| No. 4, (red), bbls., c.l. | lb. | .12½ | — |
| Hemlock bark extract, 25% tannin, bbls., c.l., works | lb. | No stocks. | |
| tanks, works | lb. | No stocks. | |
| Henbane leaves, bls | lb. | .27 | .35 |
| Henna leaves, bls | lb. | .23 | .25 |
| powd., bbls., bgs | lb. | .27 | .29 |
| Heptane, industrial Bayonne, N. J., tanks | gal. | .18 | — |
| group 3, tanks | gal. | .12½ | .13½ |
| Hesperidine methylchalcone, bots., works | lb. | 50.00 | — |
| Hexalin (see Cyclohexanol). | | | |
| Hexamethylenetetramine, tech., bgs., c.l., Perth Amboy or N.Y.C. | lb. | .23 | — |
| l.c.l., same basis | lb. | .25 | — |
| bbls., c.l., same basis | lb. | .23½ | — |
| l.c.l., same basis | lb. | .25½ | — |
| USP, dms., 500 lbs. or more, same basis | lb. | .39½ | — |
| smaller lots, same basis | lb. | .40½ | — |

| | | | |
|---|---|---|---|
| Hexamine (see Hexamethylene tetramine). | | | |
| Hexane, industrial, group 3, tanks | gal. | .148 | — |
| Bayonne, N. J., tanks | gal. | .18 | — |
| Hexanol, normal, dms., c.l., works | lb. | .31½ | — |
| l.c.l., works | lb. | .32 | — |
| tanks, works | lb. | .30 | — |
| Hexyleneglycol, dms., c.l., dlvd | lb. | .14¼ | — |
| l.c.l., dlvd | lb. | .15 | — |
| tanks, dlvd | lb. | .12½ | — |
| Hexylmethacrylate, normal, dms., less than truckload, works | lb. | .71 | — |
| Hexylresorcinol, USP, dms., 50 lbs. up, frt. alld | lb. | 17.00 | — |
| works | lb. | 16.00 | 17.00 |
| smaller lots, frt. alld | lb | 18.00 | — |
| works | lb. | 18.00 | 20.00 |
| Histamine diphosphate USP bots | kilo. | 375.00 | — |
| Histidine hydrochloride—laevo, NF, 6lb dms., 50 kilo lots, works | kilo. | 100.00 | 120.00 |
| 1-5 kilos, works | kilo. | 110.00 | 130.00 |
| Homatropine hydrobromide, USP bots | oz. | 13.75 | 13.85 |
| Hydrochloride, bots | oz. | 20.00 | 22.00 |
| Methylbromide, NF, bots | oz. | 13.00 | 16.25 |
| Hoof meal, 17-18% ammonia, bulk, c.l., Chicago, unit-ton | ton. | 7.50 | — |
| Hops, NF, bls | lb | .40 | .45 |
| Horehound herb, bls | lb. | .14 | .15 |
| Hydranges root, bls | lb | .14 | .17 |
| Hydrastine, bots | oz. | 31.00 | 37.00 |
| Hydrochloride, NF, bots | oz. | 29.50 | 36.00 |
| Sulphate, bots | oz. | 35.00 | 37.00 |
| Hydrastinine, 10-grain bots | bot. | 1.95 | — |
| Hydrastis (see Goldenseal). | | | |
| Hydrofuramide, dms, 6lb. cans, works | lb. | .30 | .40 |
| Hydrogen chloride, anhyd., 50-lb. cyl., works | lb. | .50½ | .55½ |
| Peroxide, USP, bbls | lb. | .03¾ | .05 |
| 35%, cbys., same basis | lb. | .24½ | .25½ |
| dms., c.l., same basis | lb. | .21½ | — |
| l.c.l., same basis | lb. | .22 | .26½ |
| tanks, works | lb. | 20¾ | — |
| Hydrogen peroxide prices on W. Coast, 2c. per lb. higher. | | | |
| Hydroquinone photographic, bbls., dms | lb. | .90 | — |
| tech, dms | lb | .70 | — |
| Hydroxycitronellal, cns | lb. | 8.50 | 8.60 |
| Hyoscine salts (see Scopolamine) | | | |
| Hyoscyamine, bots | oz. | 15.75 | 16.00 |
| Hydrobromide, bots | lb | 16.50 | 18.00 |
| Sulphate, bots | oz. | 12.50 | 13.00 |
| Hypernic extract, cryst., No. 1, bbls., l.c.l | lb | .56 | — |
| No. 2, bbls., l.c.l | lb | .48 | — |
| liquid, No. 1, bbls., l.c.l | lb | .30 | — |
| No. 2, bbls., l.c.l | lb | .25 | — |
| solid, No. 1 bxs., l.c.l | lb | .44 | — |
| Hyssop herb, bgs | lb. | .40 | .43 |
| Leaves, bgs | lb | .45 | .50 |

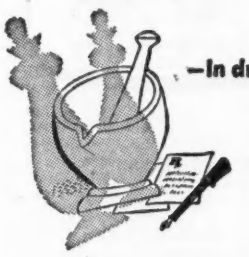
## I

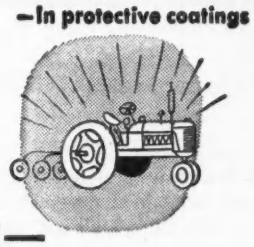
| | | | |
|---|---|---|---|
| Iceland moss, bgs | lb. | .33 | .40 |
| Ichthammol, NF, dms | lb. | .60 | .75 |
| Indian red (see Red, Indian). | | | |
| Indigo, nat., chests | lb | 2.14 | 2.16 |
| synth., paste, bots | lb | .23 | — |
| powd., bbls | lb | 1.03 | — |
| Indol, CP, bots | lb. | 17.50 | 21.00 |
| Inositol, dms., dlvd | lb | 4.90 | — |
| tins, dlvd | lb. | 5.00 | — |
| Insect flowers (see Pyrethrum) | | | |
| Iodine, crude, bgs | lb. | 1.70 | — |
| resubl., USP, bots., jars | lb. | 2.55 | 2.78 |
| Iodochlorohydroxyquinolin NF dms | lb. | 6.50 | — |
| Idoform, NF, dms., kgs | lb. | 4.70 | 4.85 |
| Ionone, alpha, cns | lb | 6.10 | 14.00 |
| Beta, cns | lb. | 8.65 | 10.00 |
| Ipecac root, bgs | lb. | 5.50 | 6.00 |
| powd., bgs | lb. | 5.75 | 6.25 |
| Irish moss, bleached, prime, bls | lb. | .26 | .28 |
| Iron acetate, liquor, 28° bbls., c.l., works | lb | .09 | — |
| l.c.l., works | lb | .09¾ | — |
| solut., USP IX, cbys | lb | .16 | — |
| djns | lb | .17 | — |
| Cacodylate NF bots | lb | 13.50 | 14.50 |
| Chloride (ferric), anhydr., tech., dms., c.l., works 100 lbs | | 5.75 | — |
| l.c.l., works 100 lbs | | 6.50 | 7.50 |
| cryst., tech., c.l., bbls., works 100 lbs | | 5.00 | 6.00 |
| l.c.l., bbls., works 100 lbs | | 5.50 | 6.00 |
| USP, dms., works | lb | .07 | .08¼ |
| solut., 42° Be. 100% basis tanks, works 100 lbs | | 3.45 | — |
| Citrate, gran., dms | lb. | .77 | .80 |
| Gluconate, NF, dms | lb | .83 | .95 |
| Glycerophosphate, N.F., powd | lb. | 4.45 | 4.55 |
| Hypophosphite, NF, dms | lb | 2.80 | — |
| Iodide, bgs | lb | 3.66 | 3.73 |
| Naphthenate, liq., 6% Fe, dms., frt. alld | lb. | .23¼ | — |
| Oxalate, gran., dms | lb. | .83 | .85 |
| Phosphate, soluble, NF, gran., cs | lb. | .64 | .68 |
| Pyrophosphate, soluble, NF VII, gran., dms | lb. | .78 | .91 |
| Reduced (see Iron by hydrogen) | | | |
| Resinate 7.4% Fe, dms, frt. alld. | lb. | .24¼ | — |



QUICK FACTS ABOUT

# Glycerine!





## 5 free booklets—

review Glycerine applications across a wide range of industry. Here's up-to-date information on the role Glycerine plays in your business . . . and a wealth of technical data besides!

All five contain pertinent information on the physical and chemical properties of Glycerine . . . its origin and development . . . grades and their applications, as well as a number of comprehensive tables and graphs.

Compiled by the Glycerine Producers' Association and edited by technical consultants, these easy-to-read booklets are designed to aid the production man as well as the research technician. Check the titles in which you're interested and mail the coupon TODAY!

**Glycerine Producers' Association, 295 Madison Avenue, New York 17, N. Y.**

*Please send copies of these Glycerine booklets*

- ☐ Why Glycerine? (a general survey of all main uses)
- ☐ Why Glycerine for Alkyd Resins and Ester Gums?
- ☐ Why Glycerine for Drugs and Cosmetics?
- ☐ Why Glycerine for Foods?
- ☐ Why Glycerine for Textiles?

Name_____

Title_____

Company_____

Address_____

City_____ Zone____ State_____

## Iron Stearate—Lithopone

Iron stearate, dms., c.l. lb. .42 - —
ton lots lb. .43 - —
less ton lots lb. .44 - —
Sulphate, partially hydrated, bgs., c.l., works ton.30.00 - —
l.c.l., works ton.31.00 - —
ferrous, tech (see Copperas)
USP, cryst. bbls. dms lb .09½- .10
Iron by hydrogen kgs lb. .80 - .85
Iron-ammonium citrate, green, NF, gran., dms lb .55 - .58
brown, USP gran., dms lb. .55 - .58
Oxalate, dms lb. 25½- .28½
Iron-potassium oxalate fine gran., dms lb. .30½- .33½
Iron-sodium oxalate, fine gran., dms lb. .25½- .28½
Isoborneol, cns. lb. .84 - .95
Isobornyl acetate, cns lb. .77 - .97
Isobutyl acetate, cns lb. .72 - 1.25
Methacrylate, dms., works lb .60 - —
Propionate, cns lb No prices.
Isobutyraldehyde, dms., works lb .50 53
Isoeugenol, cns. lb. 3.80 - 4.25
Isopentane, dms., works lb. .45 .55
Isophorone, dms., c.l., works lb. .24¼- —
l.c.l., works lb. .24¾- —
tanks, works lb. .22½- —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., frt. alld lb. .13¼- .13¾
l.c.l., same basis lb. .14¼- .14¾
tanks, same basis lb. .11½- .12
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether (see Ether, isopropyl).
Isopropylamine (see Monoisopropylamine).
Isoquinoline, dms., c.l., works lb. .20 - —
l.c.l., works lb. .40 - —

## J

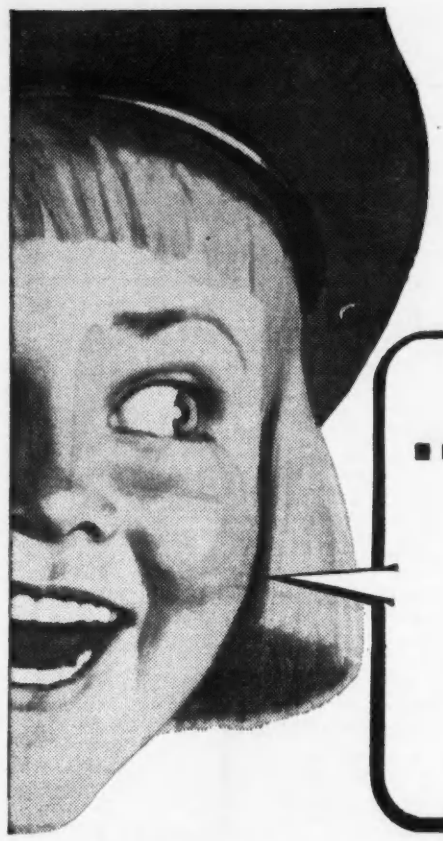
Jaborandi leaves, bls. lb. .15 - .20
Jalap root, NF, bls. lb. .43 - .45
powd., bbls., bxs. lb. .48 - .50
Juniper berries, bgs. lb. .16 - .18
Tar, NF, dms. lb. .37 - .60

## K

Kamala, powd., cns. lb. .80 - .90
Kaolin (see China clay).
Kava kava root, bls lb. 25 - .30
Kerosene, at refinery, Ark., 42-44 specific gravity, w.w. tanks, gal. .09 - —
N. Y. Harbor, 44-43 s.g. w.w. tanks gal. .101 - .102
California, 40-43 s.g., w.w., tanks gal. .12 - .13
Gulf ports, 41-43 s.g., w.w., tanks gal. .0675- .0925
Okla.-Tex., 41-43 s.g., w.w., tanks gal. .08875- .0925
Penn., Western, 45 s.g., w.w., tanks gal. .105 - .11
Kola nuts, bgs. lb. .09 - .10
Kyanite, imp., low iron content, 10-mesh, whse ton.85.00 -95.00
calcined, grain, 10-mesh, whse ton.95.00 -105.00

## L

Lady slipper root, bls. lb. 1.45 - 1.50
Lanolin, anhyd., cosmetic, dms., works lb. .32 - .34
pharmaceutical, USP, dms., works lb. .28 - .31
hydrous lb. .27 - .29
Lard, cash, trcs., Chicago lb. .15 Nom.
Larkspur seed, bgs lb .20 - .25
Laurel berries, bls lb .25 .26
Leaves, Greek, bls. lb. .68 - .69½
Portuguese, bls lb. .10 - .11
Turkish, bls lb. .11½- .12
Yugoslavian, bls. lb. .08½- .09
Lauryl chloride, dms., works, frt. equald lb. .75 - —
Methacrylate, normal, dms., less than truckload, works lb. 1.00 - —
Lavender flowers, medium bls lb .55 .60
ordinary, bls. lb. .20 - .25
select, bls lb 60 65
Lead acetate, white, crystals, bbls., lb. .22 - —
gran., bbls. lb. .23 - —
powd., bbls. lb. .23 - —
USP, cryst., dms lb. .26 - —
gran., powd., dms lb. .27 - —
Arsenate, dealers, basic powder, 3-lb. bgs., or larger, c.l., frt. alld. on 96 lbs. or over lb. .28 - —
l.c.l., frt. alld lb. .29 - .30
1-lb. bgs., c.l. lb. .41 - —
l.c.l. lb. .42 - .43
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld lb. .17¾- —
l.c.l., works lb. .18¾- —
Carbonate (see Lead, white).
Chloride, dms. lb. .39 - —
Iodide, NF V. tars lb 3.30 - —
Linoleate, precip., 26.15%, dms., lb. .34 - —
Lead, metal, pigs, prime, N. Y. lb. .17 - —
St. Louis lb. .1680- —
Metallic paste, dms., 20,000-40,000 lbs., works lb. .33½- —
10,000-20,000 lbs., same basis, lb. .34 - —
2,000-10,000 lbs., same basis lb. .34½- —
200 to 2,000 lbs., same basis lb. .35 - —
Prices ex whse., Jersey City, N. J., 4½c. per pound higher.
Naphthenate, liquid, 16% Pb, dms., divd. lb. .16¾- —
24% Pb, dms., divd. lb. .22¾- —
37% Pb, dms., divd. lb. .29¾- —
Nitrate, bbls., c.l. lb. .22 - —
l.c.l. lb. .22¼- —
Oleate, fused, bbls lb 24 —
Orthosilicate gel, 50% PbO, dms., works lb. .31¾- —
60% PbO, dms., works lb. .30¼- —
Peroxide, powd., tech., bbls. lb. .41 - .43
Phthalate, dibasic, dms., works, lb. .40½- —
Red, 95% $Pb_3O_4$, or less, bbls., c.l., ship't point, frt. alld. lb. .19¾- —
l.c.l., same basis lb. .20¾- —
97% $Pb_3O_4$, bbls., c.l., same basis lb. .20 - —
l.c.l., same basis lb. .21 - —
98% $Pb_3O_4$, bbls., c.l., same basis lb. .20¼- —
l.c.l., same basis lb. .21¼- —
Resinate, precip., dms., divd lb. .27 - —
Salicylate, normal, dms., works lb. .43½- —
Silicate, bgs., l.c.l., ship't pt., frt. alld lb. .1805- .1875
Stearate, dibasic, dms., works lb. .53 - .56
precip., bbls., c.l. lb. .44 - —
ton lots lb. .45 - —
less ton lots lb. .46 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
tribasic, dms., works lb. .27½- —
Tallate, liquid, 16% Pb, dms. lb. .13½- .14½
24% Pb, dms lb. .17¾- .19
White, basic carbonate, bgs., c.l., ship't point, frt. alld lb. .18½- —
l.c.l., same basis lb. .19½- —
basic silicate, bgs., c.l., ship't point, frt. alld lb. .16¼- .21¼
l.c.l., same basis lb. .17¼- .22¼
basic sulphate, bgs., c.l., ship't point, frt. alld lb. .17¾- —
l.c.l., same basis lb. .18¾- —
Lecithin, edible, tech., bleached dms., non-ret., c.l., works lb. .18 - —
l.c.l., same basis lb. .19 - —
unbleached, c.l., same basis lb. .17 - —
l.c.l., same basis lb. .18 - —
Lemon peel, bls. lb. .18 - .20
Leucine dextro-laevo, dms., works. lb.12.25 -15.00
Licorice extract, mass, cns. lb. .40 - .45
powd., bbls. lb. .55 - —
Root, bls. lb. .08 - .09
5-lb. bundles, cs. lb. .40 - .45
powd., bbls. lb. .11 - .12
Lignin extract, tanning grade, bgs., c.l., works lb. .05¼- .06½
Lime, agricultural, bgs., works ton.13.00 -13.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass ton.10.00 - —
Annville, Pa. ton.11.00 - —
Bellefonte, Pa. ton.11.00 - —
Buffalo, N. Y. ton.10.50 - —
Carey, Ohio ton. 7.00 - —
Cedar Hollow, Pa. ton.10.50 - —
Farnams, Mass. ton.14.00 - —
Gibsonburg, Ohio ton. 8.50 - —
Hannibal, Mo. ton. 9.25 - —
Keystone, Ala. ton.10.25 - —
Knoxville, Tenn. ton.10.25 - —
Limedale, Ark. ton.10.15 - —
Longview, Ark. ton.10.25 - —
Martinsburg, W. Va. ton.10.40 - —
Menominee, Mich. ton. 8.00 - —
Mitchell, Ind. ton. 7.50 - —
Rockland, Maine ton. 9.00 - —
Scioto, Ohio ton. 7.50 - —
Woodville, Ohio ton.10.50 - —
York, Pa. ton.11.00 - —
Hydrated, paper bgs., Adams, Mass. ton.14.00 - —
Annville, Pa. ton.14.00 - —
Bellefonte, Pa. ton.14.00 - —
Buffalo, N. Y. ton.14.00 - —
Cedar Hollow, Pa. ton.12.50 - —
Engle, W. Va. ton.13.90 - —
Farnams, Mass ton.14.00 - —
Gibsonburg, Ohio ton. 9.50 - —
Hannibal, Mo. ton.12.50 - —
Keystone, Ala. ton.13.50 - —
Knoxville, Tenn. ton.12.65 - —
Limedale, Ark. ton.11.50 - —
Longview, Ala. ton.13.50 - —
Manistique Mich ton. 8.50 - —
Marblehead, Ohio ton.10.50 - —
Mitchell, Ind. ton.10.00 - —
Petoskey, Mich ton 10.00 - —
Port Island, Mich. ton. 9.00 - —
Rapid City S Dak. ton 12.00 - —
Rockland, Maine ton.11.50 - —
Scioto, Ohio ton 9.00 - —
Sherwood, Wis. ton 10.00 - —
Springfield, Mo. ton 9.00 - —
Woodville, Ohio ton.15.00 - —
York, Pa. ton.14.00 - —
Spray, paper bgs., Adams, Mass. ton.11.70 - —
Annville, Pa. ton.14.00 - —
Bellefonte, Pa. ton.14.00 - —
Carey Ohio ton.11.00 - —
Engle, W. Va. ton.13.90 - —
Farnams, Mass. ton.14.00 - —
Gibsonburg, Ohio ton.10.00 - —
Marblehead, Ohio ton.10.00 - —
Rockland, Me ton.10.00 - —
Scioto, Ohio ton.10.00 - —
Woodville, Ohio ton.15.00 - —
York, Pa. ton.14.00 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).
Limestone, grd. ogs. works ton 3.50 4.00
Linalool, ex bois de rose, dms. lb. 5.80 - 6.15
ex lignaloe wood, dms. lb. 6.50 - 7.10
Linalyl acetate, 90-92%, dms. lb. 6.00 - 6.15
96-98%, dms. lb. 6.95 - 7.25
ex petitgrain, bots. lb. 4.25 - 6.00
Lindane, 25% formulation, cns., works lb. 2.70 - —
dms., works lb. 2.60 - —
Linden flowers with leaves, bls. lb. .25 - .30
without leaves bls lb 22 .28
Linseed meal, expeller, 34% bulk, Midwest mills ton.57.00- 57.50
extracted, 36%, same basis ton.56.00- 56.50
Litharge, com'l, powd. bbls., c.l., ship't point, frt. alld. lb. .18¾- —
l.c.l., same basis lb. .19¾- —
Lithium benzoate, dms lb. 1.67 - —
Bromide, NF, bbls., works, frt. equald lb. 2.10 - 2.35
Carbonate, NF, bbls., kgs lb. 1.05 1.15
Chloride, cryst., dms lb. .33 - —
Citrate, NF, bbls., dms., kgs lb. 1.05 - 1.40
Fluoride, bbls lb. 1.80 2.00
Hydride, dms., works lb.14.00 -18.50
Hydroxide, monohydrate, dms lb. .90 - 1.25
Salicylate, dms lb. 1.62 - 1.70
Lithopone, ordinary, bgs., c.l., dlvd. lb. .07 - .07½
l.c.l., dlvd. lb. .07¾- .08½
Titanated (high-strength), bgs., c.l., dlvd. lb. .09¾- —
l.c.l., dlvd. lb. .10¾- —
Lithopone prices, Pacific Coast, 1c. per lb. higher.

How can I trim material costs... without cutting quality?

...that's easy, use Basic Silicate White Lead "45 X"
TRADEMARK

Photomicrograph of Basic Silicate White Lead "45 X" particles, showing concentration of reactive white lead compound on surface.

Photomicrograph of the characteristic lead soap formation produced with Basic Silicate White Lead "45 X," showing the effective action of the particle.

You've never seen a pigment like Basic Silicate White Lead "45 X." It's unique.

This White Lead is higher in bulking value than any other reactive pigment. You use fewer pounds... make just as many gallons of paint... and maintain all the good qualities that lead pigments are noted for: durability, flexibility, and adhesion.

In this pigment the reactive portion of each particle is concentrated at the surface, thus giving you all the well-known advantages of White Lead... plus high bulk.

This new pigment is also a highly efficient film stabilizer. And, it contributes to the self-cleaning properties of multiple-pigment house paints.

Many paint manufacturers have adopted Basic Silicate White Lead "45 X." Let a National Lead representative give you the whole money-saving story—supported by results of both laboratory and outdoor exposure tests. Write or phone our nearest office.

"Save the Surface and You Save All"

DUTCH BOY
Basic Silicate
WHITE LEAD "45 X"

NATIONAL LEAD COMPANY
New York 6; Buffalo 3; Chicago 8; Cincinnati 3; Cleveland 13; Philadelphia 25; Pittsburgh 12; St. Louis 1; San Francisco 10; Boston 6 (National Lead Co. of Mass.).

Liverwort leaves, bls..... lb. .70 - .73
Lobelia herb, bls..... lb. .50 - .55
leaves, NF ..... lb. .75 - .80
Lobeline sulphate, bots., works.. oz. 34.00 - 38.00
Logwood extract, crystals, No. 1, bbls., l.c.l. ..... lb .38¼ - —
No. 2, bbls., l.c.l. ..... lb. .36½ - —
liquid, No. 1, bbls., l.c.l.... lb. .18½ - —
No. 2, bbls., l.c.l. ..... lb. .17½ - —
No. 3, bbls., l.c.l. ..... lb .17 - —
No. 4, bbls., l.c.l. ..... lb. .16½ - —
solid, No. 1, bxs., l.c.l..... lb. .33 - —
No. 2, bxs., l.c.l. ..... lb .31 - —
No. 3, bxs., l.c.l. ..... lb .28½ - —
No. 4, bxs., l.c.l. ..... lb .26 - —
No. 5, bxs., l.c.l. ..... lb .26½ - —
No. 6, bxs., l.c.l. ..... lb .44½ - 49¼
Lovage root, imported, bls..... lb. .75 - .80
Lupulin tins ..... lb 1.95 - 2.00
Lycopodium, cs ..... lb. 1.35 - 1.50
Lysine hydrochloride, dextro-laevo bots. kilo. 145.00 - 149.00

## M

Mace, Amboina, bls..... lb. No prices.
Banda, No. 1, bls., afloat..... lb. 1.95 - 2.00
Siauw, No. 1, bls..... lb. 1.30 - 1.35
afloat ..... lb. 1.30 - —
West Indian, cs ..... lb. 1.30 - 1.35
Dec.-Jan. shipment..... lb. 1.25 - 1.30
broken, cs., December delivery.. lb. 1.00 - —
Madder Dutch bgs..... lb .29 - .33
Magnesia, calcined, tech., ctns., works lb. .32 - .34¼
synth. rubber grade, ctns., works. lb. .31 - —
USP, light ctns..... lb. .34 - .38
heavy, bbls..... lb. .36 - .38
Magnesium arsenate, bgs., cans, works. lb. .20 - .50
Bromide, jars ..... lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald.. lb. .09½ - —
l.c.l., frt. alld..... lb. .10½ - —
bbls., c.l., frt. equald..... lb. .10¾ - —
l.c.l., frt. alld..... lb. .11¾ - —
kgs., c.l., frt. equald..... lb. .12 - —
l.c.l., frt. alld..... lb. .13 - —
USP, bgs., c.l., frt. equald.. lb. .11¼ - —
l.c.l., frt. alld..... lb. .12¼ - —
bbls., c.l. frt. equald..... lb. .11¾ - —
l.c.l., frt. alld..... lb. .12¾ - —
kgs., c.l., frt. equald..... lb. .13 - —
l.c.l., frt. alld..... lb. .14 - —

Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila county, Pa Frt equald with N Y C on all other destinations

Chloride, anhyd., dms., works lb. .12¾ - .15
flake, bbls., c.l., works..... ton. 45.00 —
l.c.l., works..... ton. 49.00 - 51.00
Gluconate, dms., cns..... lb. 1.88 - 1.93
Glycerophosphate, dms., works. lb. 5.10 - 5.20
Hydroxide NF medicinal, bbls., dms., kgs lb. .29 - .30
Hypophosphite dms lb 1.60 — —
Laurate, bbls ..... lb. .46 - .47
Metal, 99.8% ingots, cs., works lb. .24½ - —
sticks, cs., works, frt. alld. on carlots. lb. .42 - .44
Oleate, fused, bbls ..... lb .31 - —
Oxide (see Magnesia, calcined)
Peroxide, 15%, dms., works .. lb 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb 75 - —
Silicate (see Talc).
Silicofluoride bbls., works.... lb 09 - .10
Stearate, ctns., c.l..... lb. .43 - —
smaller lots ..... lb. .44 - .45
Sulphate (see Epsom salt)
Trisilicate, USP, dms., 5,000-lb. lots lb 43 — —
1,000-lb. lots ..... lb. .45 - —
100-lb. lots ..... lb. .50 - —
Magnesite, chemical grade, bgs. c.l., works, frt. equald.. ton. 72.50 - —
dead-burnt bulk, c.l. standard grain, Chewalah, Wash.. ton. 36.30 - —
Maleic anhydride dms., c.l., dlvd., lb. .32 - .33
l.c.l., dlvd..... lb. .33 - .36

Prices on maleic anhydride West of Rockies 1½c. higher.

Malva flowers, black, bls..... lb 1.60 - 1.20
Blue, bls ..... lb 90 - 1.00
Leaves, bls ..... lb. .38 - .40
Mandrake root, bls..... lb. .40 - .41
Manganese acetate bbls. ..... lb .32 - —
Arsenate, bgs ..... lb 12 - .12½
Borate, tech. bbls ..... lb 23 - —
Carbonate bbls. works..... lb. .21 - —
Chloride anhyd. dms works lb. .28 - .32
Dioxide, African, battery, 84-87%, bgs., 100 tons, works ton. 78.00 — —
smaller lots, works ton. 84.00 - 94.00
Gluconate, dms., cns ..... lb. 1.86 - 1.93
Glycerophosphate, NF, fib. dms lb. 4.70 - 4.80
Hydrate bbls. works ..... lb .34 - —
Hypophosphite, NF, dms lb 2.00 - —
Linoleate, liquid, 4.35% Mn., dms. lb. .30½ - —
solid, precip., 8.2% Mn., bbls lb. .33½ - —
Metal, cs., dlvd, East..... lb. .30 - .32
Naphthenate, liquid, 6% Mn., dms., frt. alld.. lb. .24½ - —
Oleate, precip., bbls..... lb. .33½ - —
Resinate, fused, 3½% Mn., dms lb. .20½ - —
precip., dms ..... lb. .22½ - —
Stearate, ctns., c.l..... lb. .43 - .44
smaller lots ..... lb. .45 - —
Sulphate, tertilizer grade, 65% bgs., c.l., dlvd, S E ton. 66.00 — —
l.c.l., dlvd, S E ton. 73.00 — —
feed grade, 80% bgs., dlvd., S. E lb. 05¼ - .07
75% bgs, c.l., dlvd, S E ton. 76.00 — —
l.c.l., dlvd, S. E ton. 83.00 — —
Tallate, 6%, dms..... lb. .20¾ - —
Mangrove bark, E. Africa 38% tannin, c.l., ex dock ton No stocks
So. American, 30-32% tannin c.l., ex dock.. ton. 52.00 - 53.00
Manna, flake, large, cs ..... lb 1.10 - 1.35
small, cs ..... lb 85 - 1.00
Mannitol, com'l dms., works... lb 40 - .42
reagent 50-lb dms. works... lb 85 - —
Marjoram, Argentine, bls..... lb. No stocks
Bohemian, bls. ..... lb. .38 - .38½
Chilean, bls ..... lb. .37 - .38
French, bls., afloat..... lb. .45 - .46
Peruvian, bls ..... lb. .34 - .42
Matico leaves, bls ..... lb 25 - .33
Melamine, bgs, ton lots, works. lb. .33 - —
500 lbs. or more, works ... lb .33½ - —
less 500 lbs., works ..... lb .33½ - —
Menadione USP bots ..... gram .06½ — —
Menthol, natural, USP, bots.... lb. 11.50 - 11.60
synthetic, USP, racemic, cns.. lb. 7.40 - 7.70
Menthyl salicylate tins lb 4.00 - 4.25
Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld lb. .34 - —
less ton lots, same basis lb. .36 - —
Mercaptobenzothiazyldisulphide, bgs., fib. dms., ton lots, works, frt. alld lb. .42 - —
less ton lots, same basis lb. .44 - —
Mercury, ammoniated (see White precipitate)
Bichloride (see Corrosive sublimate)
Chloride (see Calomel)
Iodide, red, NF, fib. dms..... lb. 4.42 - —
yellow, NF, fib. dms..... lb. 4.57 - —
Mercury metal (see Quicksilver).
Oxide, red, NF (see Red precipitate).
yellow, tech (see Yellow, mercury oxide)
USP, fib. dms ..... lb. 2.64 - 2.89
Mesityl oxide, dms., c.l., dlvd lb. .13¼ - —
l.c.l., dlvd. ..... lb. .14 - —
tanks, dlvd ..... lb .11½ - —
Metaldehyde, dms., works ..... lb .78 1.00
Metachloranilin, dms, works lb .75 — —
Metacresol, 98%, dms., c.l., works lb. .75 - —
l.c.l., works..... lb. .76 - —
Metanitroanilin, dms., frt. alld .. lb. .97 - —
Metanitroparatoluidin, bbls..... lb. 1.44 - —
Metaphenylenediamine, kgs., frt. alld. lb. .84 - —
Metatoluidine, bbls., c.l., works, frt. alld lb. .78 - —
l.c.l., same basis ..... lb. .80 - —
tankcars, same basis..... lb. .76 - —
Metatolylenediamine, kgs., frt. alld. lb. .80 - —
Methanol, natural, denaturing grade, dms., c.l., frt. alld gal. .62 - —
l.c.l., frt. alld..... gal. .79 - —
tanks, frt. alld ..... gal. .60 - —

Prices on natural methanol W of Miss 3c. higher

synthetic, zone 1, dms., c.l., frt. alld gal. .44 - —
l.c.l., frt. alld ..... gal. .49 - —
tanks, frt. alld ..... gal. .32 - —
zone 2, dms., c.l., frt. alld gal. .49½ - —
l.c.l., ex whse..... gal. .54 - —
tanks, frt. alld..... gal. .35½ - —

Synthetic methanol zones are. Zone 1 is all continental U. S., E of eastern boundaries of Ariz., Idaho, Mont., and Utah. Zone 2 is remainder of the U. S., west of above state boundaries, comprising Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine).
Methionine, dextro-laevo, fib. dms., frt. alld., 50-lb. or more lb. 4.55 - —
feed grade, 98%, fib., dms., same basis lb. 3.00 - —
97%, fib., dms., same basis lb. 2.97 - —
Methoxychlor, 50% sol., dealers, dms. cs., works lb. .65 - —
Methyl abietate non-ret dms., c.l., dlvd., zone 1 lb. .17 - —
l.c.l. same basis ..... lb. .17½ - —
hydrogenated non-ret. dms., c.l., dlvd., zone 1 lb. .17¼ - —
l.c.l. same basis ..... lb .17¾ - —

Zone 1 includes New England and Middle Atlantic states, Va., W Va., N C., Ohio., Ky., Mich. Ind. Ill., Wis., St. Paul and Minneapolis, Minn. St. Louis, Mo. Miss. Ala., Ga., Fla., S C and Tenn.

Acetoacetate, dms., c.l., dlvd lb. .53 - —
l.c.l., dlvd ..... lb .54 - —
tanks, dlvd ..... lb .51½ - —

Methyl acetoacetate prices frt. alld W. ½c. higher.

Acetone, natural, dms., c.l., E. of Miss., frt. alld. gal. .57 - —
l.c.l., same basis..... gal. .68 - —
tanks, same basis..... gal. .45 - —

Natural methyl acetone prices W. of Miss. 3½c. per gal. higher.

synthetic dms. c.l., works, frt. alld, E gal. .62 - —
l.c.l., works, frt. alld, E gal. .67 - —
tanks, works, frt. alld. E gal. .50 - —

Methyl acetone, synth., East territory is all States East of and including Colo., Mont., N Mex and Wyo. West territory, all States West of those four

Methyl acrylate, dms., c.l., and truckload, works lb. .50 - —
less than truckload, works lb 50½ - —
Alcohol (see Methanol)
Anthranilate, cns., 100 lbs. or more lb. 2.50 - 2.55
extra cns. ..... lb 4.00 4.40
Benzoate, cns., dms..... lb. .45 - .63
Bromide, dealers, cns ..... lb. 69 71
cyls. ..... lb 60 78
Chloride, indust., cyl., works lb. .16 - .18¼
tanks, multi-unit, works .. lb. .13½ - .14
single-unit, works ..... lb. .11 - .11¼
refrigerator mtrs. cyls. dlvd lb. 39 .48
other consumers or service men cyls. dlvd lb. 49 —
Cinnamate, cns ..... lb. 1.43 - 1.75
Cyclohexanol, dms. c.l. works lb. .28½ - —
l.c.l., works ..... lb. .30 - —
tanks, works ..... lb. .27 - —
Formate, refd., dms ..... lb. .35 - .40
tech. non-ret dms., any quantity works lb 08 — —
tanks works lb 07 — —
Iodide, bots., works ..... lb 3.65 4.78
chys. works ..... lb 2.80 3.00
Lactate dms. c.l. works lb 35 — —
Methacrylate, dms., c.l. and truckload, works lb. .44½ - —
less than truckload works lb. .45 - —
Parahydroxybenzoate USP bots. lb 2.10 2.20
fib dms lb 1.90 2.00
Roscanilin chloride USP bot. lb 5.17 5.27
Salicylate, USP, dms., 500 lbs lb. .45 - .50
cans, 50 lbs ..... lb. .50 - .55
Testosterone USP 100 gms gm 3.50 —
Methylheptin carbonate, bots.... lb. 35.00 - 40.00


PRESCRIPTION

℞

You can rely on Quality in

MONSANTO

PHARMACEUTICALS

**CAFFEINE, ANHYDROUS, U.S.P.**

**Specifications:** White powder; loss on drying at 80° C., 0.25% max.; melting range, 235°-237.5° C.

Available in 100 and 25-pound fiber drums and in 10 and 5-pound boxes.

**ACETOPHENETIDIN, U.S.P.**

**Specifications:** White crystalline powder; solubility in ethyl alcohol, 95% (1:15) complete; melting range, 134°-136° C.; ash, 0.05% max.

Available in 200, 100 and 50-pound fiber drums and 25-pound boxes.

**MONSANTO PHARMACEUTICALS**

Acetanilid, U.S.P.
Acetophenetidin, U.S.P.
Acetylsalicylic Acid, U.S.P. (Aspirin)
Benzoic Acid, U.S.P.
Benzyl Benzoate, U.S.P.
Caffeine, U.S.P.
Calcium Phosphate, Di
Chloral Hydrate, U.S.P.
Chloramine-T, N.F.
Ferric Phosphates
Glycerophosphates
Magnesium Phosphates
Methyl Salicylate, U.S.P.
para-Aminosalicylic Acid
Phenol, U.S.P.
Phenolphthalein, U.S.P.
Phosphoric Acid
Potassium Ammonium Phosphate
Saccharin, U.S.P.
Salicylic Acid, U.S.P.
Salol (Phenyl Salicylate)
Sodium Benzoate, U.S.P.
Sodium para-Amino Salicylate
Sodium Phosphate
Sodium Salicylate, U.S.P.
Sulfanilamide, U.S.P.

**ACETYLSALICYLIC ACID, U.S.P.** (Aspirin)

**Specifications:** White crystals or powder; assay 99.5% min.; solubility in ethyl alcohol 95% (1:5) complete; solubility in 10% $Na_2CO_3$ (1:20) complete; ash, 0.05% max.; conforms to U.S.P. test for heavy metals, carbonizable impurities, resinous products, chloride, sulfate and free salicylic acid; 20-mesh, 40-mesh and 80-mesh screen.

**Containers:** 250-pound fiber drums; 25-pound boxes.

**ACETYLSALICYLIC ACID** — 10%, 16% and 20% starch granulations...12-50 mesh...also are available.

**Containers:** 250-pound fiber drums; 25-pound cartons.

**MAIL COUPON FOR INFORMATION** — For information on Monsanto Pharmaceuticals, mail the coupon or contact the nearest Monsanto Sales Office. MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, 1739-L South Second Street, St. Louis 4, Missouri.

**DISTRICT SALES OFFICES:** Birmingham, Boston, Charlotte, Chicago, Cincinnati, Cleveland, Detroit, Houston, Los Angeles, New York, Philadelphia, Portland, Ore., San Francisco, Seattle. In Canada: Monsanto (Canada) Ltd., Montreal.

MONSANTO
CHEMICALS—PLASTICS

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
1739-L South Second Street, St. Louis 4, Missouri

Please send information on: .....Acetylsalicylic Acid, U.S.P.; .....Acetophenetidin, U.S.P.; .....Caffeine, Anhydrous, U.S.P.; and on.....

*Name*.....*Title*.....
*Company*.....
*Street*.....
*City*.....*Zone*.....*State*.....

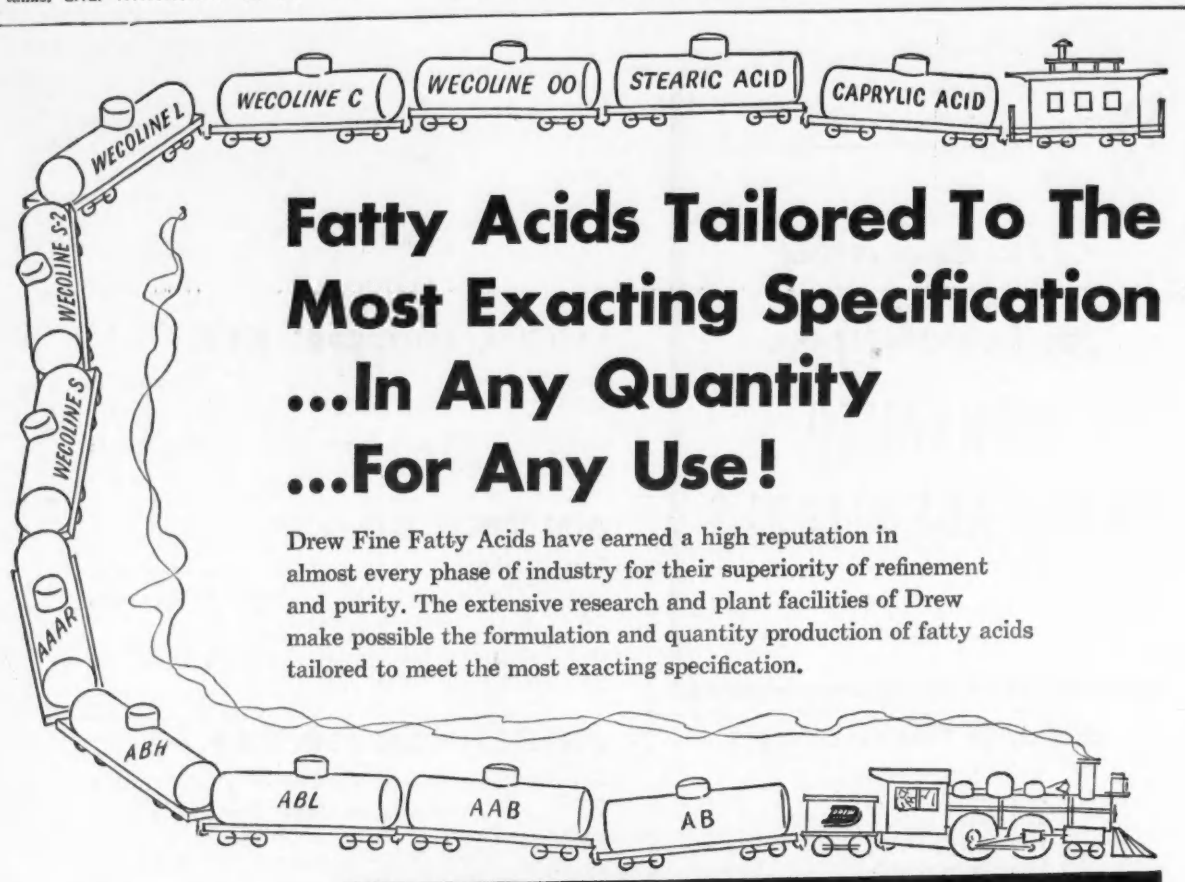
SERVING INDUSTRY . . . WHICH SERVES MANKIND

**Methylal, Refined—Nux Vomica**

Methylal, refined 95% dms., c.l., works lb. .11 - —
l.c.l. works lb. .12 - —
tanks, works lb. .09 - —
Methylamyl acetate, dms., c.l., dlvd. lb. .15¼ - —
l.c.l., dlvd lb. .16¼ - —
tanks, dlvd lb. .13½ - —
Ketone, dms., works lb. 1.05 - —
Methylcellulose, special vis., (1,500-4,000 cps.), fib. ctns., c.l., works lb. .78 - —
2,000 lbs and more same basis lb. .80 - —
smaller lots frt alld on 100 lbs. .85 - .97
standard vis., (15-400 cps.), fib. ctns., c.l., frt. alld lb. .66 - —
2,000 lbs and more same basis lb. .68 - —
smaller lots frt alld on 100 lbs lb. .73 - .85
Methylene blue 100-lb. lots, kgs., frt. adjusted lb. 3.25 - —
smaller lots kgs. same basis lb. 3.40 - 3.60
Chloride, indust., dms., c.l., dlvd. E lb. .13 - —
l.c.l., dlvd. E lb. .14 - —
tanks dlvd E lb. 11½ - —
Ketone, dms., c.l., dlvd lb. .11¾ - —
l.c.l., dlvd lb. .12½ - —
tanks, dlvd lb. .10 - —
Methylionone A cnr lb 6.55 8.80
D, cns lb 7.50 9.55
prime cns lb 4.55 6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl)
Ketone, dms., c.l., dlvd lb. .13¾ - —
l.c.l. dlvd. lb. .14½ - —
tanks, dlvd. lb. .12 - —
Methylnapthyl ketone, cns lb. 3.00 - 3.75
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol)
Methylphenylpyrazolone, 250-lb. dms., dlvd lb. 1.51 - —
less than 250 lbs., dms., dlvd lb. 1.71 - —
Methylthionine chloride (see Methylene blue).
Mica dry-grd., paint, plastic, 100 mesh, bgs., c.l., works lb. .04½ - —
roofing, 20 to 80 mesh, works lb. .03½ - —
wet-grd., biotite, bgs. c.l., works, frt. alld., E lb. .05¾ - —
l.c.l. ex whse., or frt alld. E lb. .06½ - —
extra fine, bgs., c.l., works, frt. alld., E lb. .05¾ - —
l.c.l. ex whse or frt alld. E lb. .06½ - —
paint or lacq., bgs., c.l., works, frt. alld., E lb. .07¼ - —
l.c.l. ex whse or frt alld. E lb. .08 - —
rubber, bgs., c.l., works, frt. alld. E lb. .07 - —
l.c.l. ex whse or frt allo E lb. .07¾ - —
wallpaper, bgs., c.l., works, frt. allo. E lb. .07¼ - —
l.c.l. ex whse or frt. allo. E lb. .08 - —
white, extra, fine, bgs., c.l., works. frt. allo. E lb. .07½ - —
l.c.l. ex whse or frt. allo. E lb. .08 - —
Mica, wet-grd., W of Miss. R., ½c. higher, W of Rockies 1c. higher
Milk powder, skimmed, roller, bbls., c.l. lb. .12 - .13¾
spray, bbls., c.l lb. .13 - .15¼
Whole, roller, bbls., c.l lb. .31 - .36½
spray, bbls., c.l lb. .33 - .36¾
Milk sugar, crude, bgs., c.l., works lb. .16 - —
edible, bbls., works, 30,000-lb. lots lb. .22 - —
2,000-lb. lots lb. .22¾ - —
200-1,800-lb. lots lb. .23¼ - —
USP, bbls., works, 30,000-lb. lots lb. .26 - —
2,000-lb. lots lb. .26¾ - —
200-1,800-lb. lots lb. .27¼ - —
Mineral spirits (see Petroleum, mineral spirits).
Molasses, blackstrap, tanks gal. .26½ - .27½
New Orleans, tanks gal. .26½ - —
Molybdate orange (see Orange molybdate).
Molybdenum metal, 99% Mo. powd., kgs. lb. 3.00 Nom.
Trioxide, pure, kgs., works, basis Mo. content lb. 1.35 - —
technical, kgs., works, basis Mo. content lb. 1.13 - 1.14
Monochlorobenzene, dms., c.l., frt. allo., or dlvd lb. .09½ - —
l.c.l., same basis lb. .10½ - —
tanks, same basis lb. .08 - —
Monochlorobenzene prices in the West, 1¼c. higher.
Monoethanolamine, dms. c.l., frt. allo. E lb. .28¾ - —
l.c.l., same basis lb. .29¾ - —
tanks, same basis lb. .27 - —
Monoethylalphanaphthylamine, dms., works lb. .88 - —
Monoethylamine, dms., c.l., frt. allo. E., basis 100% lb. .21¾ - —
l.c.l., same basis lb. .22¾ - —
tanks, same basis lb. .20 - —
Monoethylorthotoluidine, bbls lb. .80 - —
Monomethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .35 - —
l.c.l., same basis lb. .35½ - .36
tanks, same basis lb. .31 - —
Monononylnaphthalene, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium phosphate, monobasic).
Monotertiarybutylmetacresol, dms., c.l., works lb. .50 - —
l.c.l., works lb. .51 - —
tanks, works lb. .49 - —
Morphine, cns oz. 12.40 -12.60
Acetate, cns oz. 9.85 - 9.90
Hydrobromide, cns oz. 9.80 - 9.90
Hydrochloride, NF, cns oz. 9.90 10.00
Sulphate, USP, cns oz. 9.90 -10.00
Morpholine, dms., c.l., works lb. .60½ - —
l.c.l., works lb. 61 - —
tanks, works lb. .59 - —
Mountain ash berries, bgs lb. 65 - .75
Mullein flowers, cs lb. 1.15 - 1.20
Leaves, bls. lb. .21 - .25
Musk, natural, Tonquin grains, bots. oz. 40.00 -45.00
synthetic—Ambrette, 100 lbs., fib. dms lb. 5.40 - —
25 lbs., cns lb. 5.50 - —
5 lbs., cns lb. 5.65 - —
Ketone, 100 lbs., fib. dms lb. 5.15 - —
25 lbs., cns lb. 5.25 - —
5 lbs., cns lb. 5.40 - —
Xylol, 100 lbs., fib. dms lb. 1.50 - —
25 lbs., cns lb. 1.60 - —
5 lbs., cns lb. 1.70 - —
Musk root, bls lb. No prices.
Monoisopropylamine, dms., c.l., frt. allo. E lb. .26¼ - —
l.c.l., same basis lb. .27¼ - —
tanks, same basis lb. .24¼ - —
Mustard seed, Calif., brown, bgs., f.o.b. source lb. .09¾ - .10
Danish yellow, bgs., futures lb. .15½ - .16
English, yellow, bgs lb. .16 - .16½
Montana, brown, bgs., source lb. .07¼ - —
Oriental, bgs., source lb. .08½ - —
yellow, bgs., source lb. .15 - .15½
Washington, yellow, source, bgs. lb. No prices.
Myrobalans, J1, assorted, bgs., ex dock ton. 45.50 -46.50
crushed, bgs., ex dock ton. 71.00 - —
J2, bgs., ex dock ton. 36.50 -37.50

## N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).
Naphthalene, dom., crude, 74°, tanks, frt. allo lb. .0523 - —
78°, dms., c.l., same basis lb. .0665 - —
l.c.l., same basis lb. .0560 - —
tanks, same basis lb. .0575 - —
refined, industrial, bbls., c.l., frt. equald lb. .10¼ - —
bgs., c.l., same basis lb. .09¾ - —
tanks, same basis lb. .09¼ - —
balls, flakes, wholesalers, jobbers, bbls. c.l., same basis lb. .13 - —
cs. 50 lbs., c.l., same basis lb. .13¼ - —
1-lb pkgs., c.l., same basis lb. .15½ - —
imported, crude, 78°, large lots. lb. .04¼ - .05
Neocinchophen USP, dms., frt. adjusted lb. 7.00 - 7.35
Nephelin syenite, glass, 24 mesh, bulk, Rochester, N. Y ton. 14.25 - —
pottery 200 mesh, bulk, Rochester, N. Y ton. 18.25 - —
Nephelin syenite in bgs., $3 per ton higher than bulk.
Nerolin, cns lb. 2.25 - 2.30
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd lb. .57 - .57½
Carbonate, bbls., dlvd lb. .60½ - .61
Chloride, bbls., dlvd lb. .31 - —
Cyanide, bots., dms lb. 1.75 - 2.00
Formate, bbls., ton lots, frt. allo. lb. .54¾ - —
Metal, electro cathodes, cs lb. .48 - —
Nitrate, bbls., works lb. .29¾ - —
Oxide, black, bbls lb. .42 - —
Sulphate, bgs., c.l., dlvd lb. .23½ - —
l.c.l., dlvd lb. .24 - —
Nicotinamide, USP, dms., frt. adjusted kilo 11.00 -11.30
Hydrochloride, dms., frt adjusted kilo. 10.50 -10.80
Nicotine sulphate, 40% 50-lb. dms., dealers frt. allo. over 70 lbs., dm. 49.40 - —
tins 10 lbs. dealers, frt. allo on cases of 6 tin 10.85 - —
Nikethamide, cbys. lb. 5.75 - 6.75
Nitrobenzene, dbl. dist., dms., c.l., frt. allo. lb. .10 - —
l.c.l., frt. allo. lb. .11 - —
tanks, frt. allo. lb. .09 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .29 - —
l.c.l., same basis lb. .30 - .32
18-25 cps., c.l lb. .31 - —
l.c.l., same basis lb. .32 - .34
250-400, 600-1,000 secs., c.l., same basis lb. .35 - —
l.c.l., same basis lb. .36 - .38
spirit-soluble, 30-35 cps., ¼, ½, sec., c.l., same basis lb. .38 - —
l.c.l., same basis lb. .39 - .41
5-6, 40-60 secs., c.l., same basis lb. .37 - —
l.c.l., same basis lb. .38 - .40
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra, but returnable
Nitroethane, dms., dlvd., E. of Rockies lb. .25 - —
Nitrogen solution tanks, works, N ton. 115.00 - —
Nitrogenous process tankage, bulk, works, ammo., ship't. unit-ton. 4.15 - 4.50
Sewage sludge, bulk, works, unit ton 3.25 + .40
Nitromethane, dms., l.c.l., dlvd, E. of Rockies lb. .25 - —
Nitropropane, 1, dms., dlvd., E. of Rockies lb. .23¼ - —
2, dms., dlvd., E. of Rockies lb. .25 - —
Nonylphenol, dms., c.l., works lb. .28½ - —
l.c.l., works lb. .29½ - —
tanks, works lb. .27½ - —
Nutgalls, Aleppo, bgs lb 38 - —
Chinese, bgs. lb .32 - —
Istrian, bgs lb 31 - —
Nutmeg, East Indian, 110's, cs lb. .66 - .67
afloat, cs lb. .64 - .65
West Indian, bgs lb. .47 - .47½
futures, bgs lb. .50 - .50½
Nux vomica bls. lb 10 .12
powdered, bbls. bxs lb 13 .14


# Fatty Acids Tailored To The Most Exacting Specification ...In Any Quantity ...For Any Use!

Drew Fine Fatty Acids have earned a high reputation in almost every phase of industry for their superiority of refinement and purity. The extensive research and plant facilities of Drew make possible the formulation and quantity production of fatty acids tailored to meet the most exacting specification.

COSMETICS
SOAPS
SHAMPOOS
DETERGENTS
SHAVING CREAMS
FOOD
PHARMACEUTICALS
TEXTILES
LEATHER
RUBBER
PAINTS
PLASTICS
PETROLEUM
PAPER
INSECTICIDES
PROTECTIVE COATINGS

CHEMICAL COMPOSITION

| PRODUCT | TYPE | Caproic ($C_6$) | Caprylic ($C_8$) | Capric ($C_{10}$) | Lauric ($C_{12}$) | Myristic ($C_{14}$) | Palmitic ($C_{16}$) | Stearic ($C_{18}$) | Oleic ($C_{18}$) | Linoleic ($C_{18}$) | Linolenic ($C_{18}$) | Others |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AB | Double Distilled Coconut Fatty Acid | | 1.0% | 3.0% | 60.0% | 18.0% | 7.0% | 1.0% | 7.0% | 3.0% | | |
| AAB | 85-90% Lauric Acid | | 2.0% | 4.0% | 90.0% | 2.0% | | | 2.0% | | | |
| ABL | 70% Lauric Acid | | 1.5% | 3.5% | 70.0% | 13.0% | 8.0% | 1.0% | 3.0% | | | |
| ABH | Double Distilled Hydrogenated Coconut Fatty Acid | | 1.0% | 3.0% | 60.0% | 18.0% | 7.0% | 8.0% | 3.0% | | | |
| AAAR | Single Distilled Coconut Fatty Acids | | 1.0% | 2.0% | 45.0% | 22.0% | 11.0% | 2.5% | 11.0% | 5.5% | | |
| Caprylic Acid | Caprylic Acid—65%<br>Caprylic Acid—80% | 5.0%<br>5.0% | 65.0%<br>80.0% | 30.0%<br>15.0% | | | | | | | | |
| Wecoline S | Double Distilled Soya Fatty Acid | | | | | TR. | 9.5% | 2.5% | 32.0% | 52.0% | | 4.0% |
| Wecoline S-2 | Distilled Soya Fatty Acid | | | | | TR. | 11.0% | 3.0% | 28.0% | 51.0% | 7.0% | |
| Wecoline L | Double Distilled Linseed Fatty Acid | | | | | | 6.5% | 2.5% | 18.0% | 25.0% | 47.0% | 1.0% |
| Wecoline C | Cottonseed Fatty Acids | | | | | 2.0% | 21.0% | 3.0% | 32.0% | 41.0% | | 1.0% |
| Wecoline 00 | Double Distilled Oleic Fatty Acid | | | | | - | 9.0% | 2.0% | 82.0% | 7.0% | | |
| Formula 1500 | Stearic Acid | | | | | 6.0% | 20.0% | 60.0% | 14.0% | | | |
| Formula 1000 | Stearic Acid | | | | | 6.0% | 20.0% | 70.0% | 4.0% | | | |
| Formula 200 | Stearic Acid | | | | | 6.0% | 20.0% | 70.0% | 4.0% | | | |
| Formula 300 | Stearic Acid | | | | | 6.0% | 21.0% | 70.0% | 3.0% | | | |
| Formula 400 | Stearic Acid | | | | | 6.0% | 6.0% | 85.0% | 3.0% | | | |
| VRO | Regular—Mixed Vegetable Fatty Acids<br>Special—Mixed Vegetable Fatty Acids | | 40% Coconut Oil Fatty Acids<br>50% Coconut Oil Fatty Acids | | | | 60% Mixed Acids<br>50% Mixed Acids | | | | | |

*For further information, write*

*TECHNICAL PRODUCTS DIVISION*

**E. F. DREW & CO., INC.**

15 EAST 26th STREET, NEW YORK 10, N. Y.

CHICAGO PHILADELPHIA BOSTON GREENVILLE, S. C.

DREW PRODUCTS

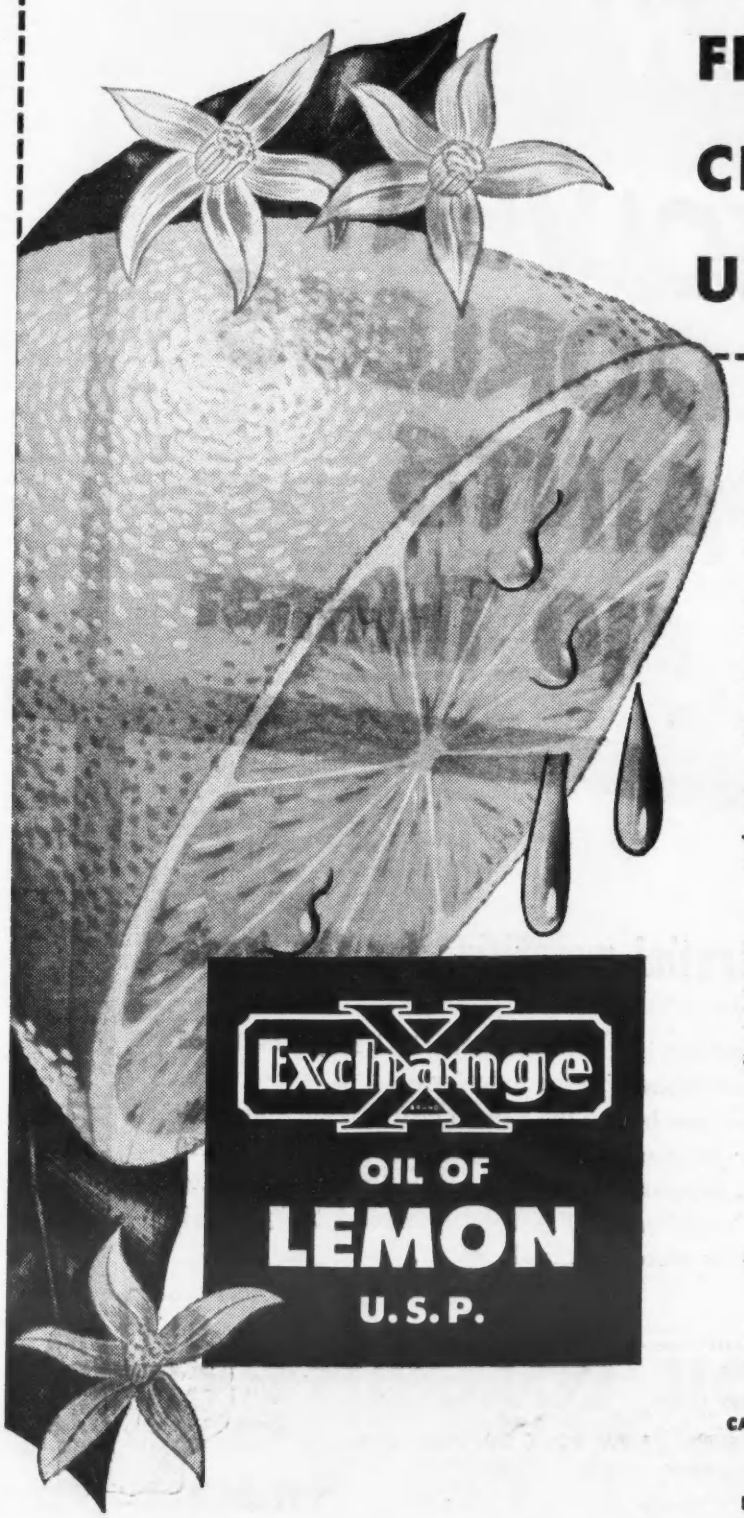
## O

Oakbark extract, 25% tannin, bbls., c.l., works lb. No stocks.
Octane, 100°-140° C. industrial grade, group 3, dms. c.l gal. .19 —
l.c.l gal. .21 - .60
tanks gal. 15½- —
10°C., b.r Bayonne, N.J. tanks gal. .18 - —
Octanol, normal tech. dms. c.l., dlvd lb. .34½- —
l.c.l. dlvd lb. 36½- —
tanks, dlvd lb. .32 - —
Octyl methacrylate, normal, dms., less than truckload works. lb. .83 —
Oil, abies siberica, ens lb. 4.00 - 4.50
Almond, artificial, bitter (see Benzaldehyde)
natural, bitter, F.P.A., bots lb. 3.15 - 3.85
NF, bots lb 3.00 - 3.75
sweet, USP, dms., ens lb. .55 - .90
Alispice (see Oil pimento).
Amyris, dms lb 1.55 - 2.10
Angelica root, bots lb.150.00 -160.00
seed, bots lb.100.00 130.00
Anise (see A)
Anise, USP, Chinese, dms lb. 1.25 - 1.65
Apricot kernels, USP, dms lb. .46 - .65
Avocado, ens., dms lb. 1.00 1.10
Babassu, crude, tankcars lb. .21 - —
Bay, NF, Puerto Rican, 50-55%, ens lb. 1.50 - 1.60
55-60%, ens lb. 1.70 - 2.00
West Indian, 50-55%, ens., dms lb. 1.50 - 1.70
Bergamot, artif., ens lb. 3.75 5.25
natural, NF, Italian, ens lb. 6.50 - 8.00
Birchtar, crude, ens lb. 1.65 - —
rectified, NF, ens lb. 4.75 - —
Bois de rose, Brazil, dms lb. 4.00 - 4.40
Mexican (see Oil Ilynaloe wood)
Bone, dms. works gal 65 70
Cajeput, redist., USP, ens lb. 2.65 - 2.85
tech., dms lb. 2.10 - 2.35
Calamus ens lb 20.00 28.00
Camphor, sassafrassy, dms lb. .24 - .69
white, dms lb. .22 .60
Cananga, native, ens lb. 4.80 - 5.25
rectified, ens. lb. 5.60 - 6.50
Capsicum (see Capsicum oleoresin)
Caraway, NF, ens lb. 4.00 - 5.10
Cardamom, NF, bots lb.60.00 -85.00
Cassia, USP, ens., dms lb. 4.75 - 5.50
Castor, blown, dms., c.l lb. .2825- —
dms., l.c.l. lb. .2870- —
dehydrated, bodied, dms., c.l lb. .30 - —
l.c.l. lb. .3075- —
tanks lb. .2875- —
unbodied, dms., c.l. lb. .2900- —
l.c.l. lb. .2950- —
tanks lb. .2775- —
hydrogenated, dms., l.c.l. lb. .3325- —
No. 3, tech., dms., c.l lb. .26 - —
l.c.l. lb. .2650- —
tanks lb. .2475- —
No. 1, Brazilian, tanks lb. .23 - —
standard, dms., c.l. lb. .2625- —
l.c.l. lb. .2675- —
tanks lb. .25 - —
refined and deodorized, dms., c.l lb. .2750- —
l.c.l. lb. .2825- —
sulphonated, 50% (48% fat), dms. lb. .14 - .14¼
75% (60-62% fat), dms lb. .19½- .19¾
Cedarleaf, USP, ens., dms lb. 3.00 - 3.25
Cedarwood, ens lb. .50 - .60
dms. lb. .45 - .55
Celeryseed, bots lb.16.50 -18.00
Chamomile, blue, Hungarian, bots lb.250.00 -280.00
Chaulmoogra, NF, ens., dms lb. .55 - .70
Chinawood (see Oil, tung).
Cinnamon bark, USP, bots lb.30.00 -60.00
leaf, Ceylon lb. 1.30 - 1.50
Citronella, Ceylon, ens., dms lb. 1.57 - 1.95
Java, true, ens lb. 2.40 - 2.65
Java type, ens lb. 1.90 - 2.55
Clove, USP, from buds, ens., dms. lb. 2.00 - 2.45
Coconut, crude, tanks, Atlantic ports lb. .18 - .18¼
Pac. Coast lb. .17¼- —
refined, Cochin type, tax incl., dms., l.c.l lb. .25¼- —
deodorized, tax incl., dms., l.c.l. lb. .27 - —
Cod, Newfoundland dms lb. .12½- —
Codliver, USP, dms gal. 1.80 - 1.90
Copaiba, ens lb. 2.50 - 2.75
Coriander, USP, bots lb.24.00 -28.50
Corn, crude, tanks, works lb. .21½- —
foots, acid 95% tanks dlvd E lb. .08 - —
raw, 50%, tanks, dlvd. E lb. .03¾- .04
refined, dms., l.c.l., New York lb. .28 - —
tanks, same basis lb. .25¼- —
Costus, bots oz.25.00 - —
Cottonseed, crude, tanks, Southeast and Valley lb. .21¼- —
foots, acid 95% tanks dlvd. E lb. .08½- —
raw, 50%, tanks, dlvd. E lb. .03¾- .04
refined, dms., l.c.l lb. .28¾- —
tankcars lb. .26 - —
Creosote (see Crotonic, coaltar).
Croton ens lb 4.75 5.50
Crude (see Petroleum, crude
Cubeb, ens. lb. 5.75 - 7.50
Cumin, bots. lb. 4.50 - —
Cypress, bots. lb. No stocks.
Degras (see D).
Dillseed, india, bots lb. 6.25 - 7.75
Dillweed, domestic, bots., dms lb. 4.50 - 5.25
Dip (see D).
Erigeron, ens. lb. 5.25 - 7.25
Eucalyptus, NF, rectified, 80-85%, dms lb. 1.00 - 1.25
70-75%, dms lb. .90 - 1.05
Fennel, USP, ens lb. 3.00 - 3.25
Fir, Canada, ens lb. 2.10 - 2.25
Fishliver, crude, for feeds, for concentrating, 6,000 to 12,000 A units per gm., dms., 1,000,000 units. .11 - .11½
15,000 to 20,000 A units dms. 1,000,000 units. .11 - .12
25,000 to 35,000 A units dms. 1,000,000 units. .11 - .12
40,000 to 55,000 A units dms. 1,000,000 units. .12 - .13
Market prices on crude fishliver oil dependent upon conversion factor
prime, natural, or concentrate, 100,000 A units, dms 1,000,000 units. .15 - —
200,000 A units, dms 1,000,000 units. .16 - —
300,000 A units, dms 1,000,000 units. .16 - —
400,000 A units, dms 1,000,000 units. .17 - —
500,000 A units, dms 1,000,000 units. .17 - —
700,000 A units, dms 1,000,000 units. .17 - —
Prices above are based on the USP XIII method of conversion, E. x 1894.
prime, nat. or conc., 100,000 A units dms 1,000,000 units. .16 - —
200,000 A units, dms 1,000,000 units. .17 - —
300,000 A units, dms 1,000,000 units. .17 - —
400,000 A units, dms 1,000,000 units. .18 - —
500,000 A units, dms 1,000,000 units. .18 - —
700,000 A units, dms 1,000,000 units. .18 - —
prices immediately above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.
Fuel (see Petroleum fuel oil).
Fusel (see F).
Garlic, pure, bots oz. 7.25 8.00
Gautheria (see Oil, wintergreen)
Geranium, Algerian, ens lb.22.00 -30.00
Bourbon, ens lb.24.50 -30.00
Turkish (see Oil palmarosa)
Ginger, dist., bots lb.22.00 -25.50
Grapefruit, dms lb. .90 - 1.25
Grease, No. 1, dms lb. .19 - .19½
extra, Winter, strained, dms lb. .22 - .23
prime, burning, dms lb. .23 - .24
Guaiacwood, ens lb. 1.75 - 2.00
Hemlock, ens lb. 2.00 2.25
Herring, crude, tanks, Pac. coast. lb No prices
Juniper berry, NF, VIII, bots lb. 2.75 - 4.00
twice rectified, bots lb. 3.75 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., ens lb 65 1.00
Lard (see Oil grease).
Laurel, bots lb. 9.75 12.50
Lavandin, ens. lb. 2.85 - 4.30
Lavandin, ens lb. 3.10 - 4.25
30-32% ester, ens lb. 4.00 - 4.50
38-42% ester, ens lb. 6.00 - 6.35
40-42%, ester, ens lb. 6.50 - 7.25
Spike, Spanish, ens lb. 1.60 - 2.10
Lemon, USP, Calif., ens., dms lb. 4.00 - 4.25
Messina, ens lb. 3.15 - 8.00
terpeneless, bots lb 32.00 -65.00
Lemongrass, ens., dms lb. 2.70 - 3.25
Lignaloe wood, Mexican, ens lb. 3.80 - 4.05
Lime, distilled, Mexican, ens. lb. 5.75 - 7.00
West Indian, ens lb. 6.75 - 7.25
expressed, West Indian, ens lb 7.25 13.75
terpeneless, bot lb 45.00 65.00
Linseed, raw, dms., c.l., Zone lb. .1810- —
l.c.l. lb. .1890- .1910
tankcars lb. .1690- —
tankwagon lb. .1720- —
Mace, dist., ens., dms lb. 3.70 - 4.00
Mandarin, Floridian dms lb. 1.90 - 1.95
Italian, ens. lb. 5.25 8.50
Menhaden, crude, tanks, Baltic lb. .13 Nom.
refined, alkali, dms lb. .1880- —
kettle-bodied, dms lb. .1980- —
light-pressed, dms. lb. .1780- —
tanks lb. .15 - —
Mineral, white (see Oil, white, mineral)
Mirbane (see Nitrobenzene)
Mustard seed, expressed, dms lb. .24 - .24½
synthetic, ens., dms lb. 1.45 - 1.70
Neatsfoot, 15°, dms lb. .38 - .38½
20°, dms lb. .36 - .36½
30°, dms lb. .32 - .32½
Neroli, NF, French bots lb.115.00 -195.00
Haitian, bots lb.90.00 —
Niaouli, ens lb. 1.95 - 3.00
Nutmeg, USP, dist., East Indian ens., dms lb. 3.85 - 4.35
West Indian, ens., dms lb. 3.85 - 4.00
Ocotea cymbarum, dms lb. .70 - .90
Oiticica, liquid, dms lb. .21 .22
tankcars lb. .20 - .20¼
Oleo, extra, dms lb. .18 - .18½
Olibanum, bots lb 5.25 7.65
extra fine, bots lb 8.00 —
Olive, commercial, dms gal No stocks.
edible, dms., duty paid gal. 2.80 - 2.90
foots, dms lb. .17¼ .17½
Orange, sweet, dist., ens lb. .75 - .90
expressed USP Brazilian, ens., dms lb. No stocks.
Calif., ens. lb. 1.25 - 2.00
Florida, ens., dms lb. 1.25 - 1.50
Messina, ens lb. 3.50 - 5.50
West Indian, ens lb 2.50 3.15
sesquiterpeneless, bots lb.55.00 105.00
Origanum, Spanish, ens lb. 2.30 - 2.75
Palm, Congo, dms lb. .18½ Nom.
tankcars lb No stocks.
Palmarosa, ens. lb. 7.75 - 8.25
Palmkernel, crude, bulk, c.l.f. N) lb No prices.
Paraffin, pale, 100-110 vis. at 100° F tanks, East Coast refinery gal 11¼- —
Patchouli, dms lb.24.00 -26.00
Peach kernel USP (see Oil apricot kernel)
Peanut, crude, tanks, Southeast lb. .21½- —
refined, dms., l.c.l lb. .30 - —
tanks, New York lb. .25½- —
Pennyroyal, USP, dom ens lb No stocks.
imported, ens lb. 5.15 - 5.75
Peppermint, natural, dms lb. 6.50 - 7.25
redist., USP., dms lb. 7.00 - 7.65
Persic USP (see Oil apricot kernel)
Perilla, crude, dms lb. No stocks.
Petitgrain, Paraguay, ens lb. 3.05 - 3.40
Pimento berry, NF, dms lb. 4.00 - 5.75
leaf, ens. lb. 1.65 - 2.00
Pine, dest.-dist., dms., extra, c.l., works, South gal. .71 - —
l.c.l. gal. .73 - —
ex whse., N. Y. C gal. .90 - —
steam-dist. dms. ex whse., nonret. dms. incl. l.c.l., ex whse., N.Y.C lb. .117 - —
Pineneedle, Siberian (See Oil, abies siberica).




8 out of 10 say it's *best* for

FLAVOR
CLARITY
UNIFORMITY




Yes, more than 80% of all the lemon oil used in the United States is Exchange Lemon Oil!

This overwhelming endorsement by the trade is your guarantee that Exchange Lemon Oil delivers *quality*... quality in the form of superior *flavor* and unmatched *clarity* and *uniformity*.

Always specify it by the brand name when you order—Exchange Oil of Lemon. For complete satisfaction, accept no other brand.

*Distributed in the United States exclusively by*
**DODGE & OLCOTT, INC.**
180 Varick Street, New York 14, N. Y.
**FRITZSCHE BROTHERS, INC.**
76 Ninth Avenue, New York 11, N. Y.

*Distributors for:*
**CALIFORNIA FRUIT GROWERS EXCHANGE**
*Products Department, Ontario, Calif.*

*Producing Plant:*
Exchange Lemon Products Co., Corona, Calif.

## Oil, Putty—Paraffin

Oil, putty, petroleum, dms., c.l., dlvd. lb. .11 - —
l.c.l., same basis lb. .12 - —
tanks, same basis lb. .10 - —
Rapeseed, tankcars lb. .23 Nom.
Red, saponified, dms lb. .21¾- .23
tanks lb. .20¼- —
double dist., dms lb. .25 - .26¼
tanks lb. .23½- —
single dist., dms lb. .22½- .23¾
tanks lb. .21 - —
Rice bran, clarif., dms lb. .19½ Nom.
Rose, natural Bulgarian, bots oz. 35.00 -40.00
Rosemary, Spanish, tech., cns., dms lb. .65 - 1.00
USP, cns., dms lb. .95 - 1.30
Rue, bots lb. 3.00 3.25
Safflower, dms., l.c.l. lb. .19¼- —
Sage, clary, bots lb. 16.00 -17.35
Dalmatian, cns. lb. 13.00 -15.25
Spanish, cns lb. 1.00 - 2.10
Sandalwood, NF, cns lb. 11.75 -12.50
Sardine crude, tanks, Pac. coast lb. .14 - —
refined, alkali, dms lb. .1880- —
kettle-bodied, dms lb. .1980- —
light-pressed, dms lb. .1780- —
tanks lb. .16 - —
Sassafras, artificial, cns., dms lb. .65 - .95
natural, Brazilian (see Oil ocotea cymbarum).
domestic, USP, cns., dms lb. 2.10 - 2.25
Savin, cns. lb. 2.75 - 3.00
Savory, cns. No stocks.
Seal, 2% acid duty extra, dms lb. No stocks.
Sesame, ref., dms., l.c.l. lb. .31½- —
Shingle stain, tar distillate, dms., c.l., works gal. .31 - —
l.c.l., works gal. .33 - —
tanks, works gal. .20 - —

Oil, snakeroot, Canada, cns lb. 19.25 -35.50
Soybean, crude, tanks, mills lb. .19 - —
foots, acid, 95%, tanks, dlvd. E lb. .08½-Nom.
raw, 50%, tanks, dlvd. E lb. .03¾- .04
refined, alkali, dms., c.l. lb. .2260- —
l.c.l. lb. .2320- .2360
tanks lb. .2120- —
clarified, dms., c.l. lb. .2160- —
l.c.l. lb. .2220- .2260
tanks lb. .2020- —
edible, dms. lb. .24 - —
tanks lb. .2190- —
Spearmint, USP, dms lb. 4.60 - 5.50
Sperm, bleached, winter, 45°, dms lb. .1620- .17
tankcars lb. .1520- —
natural, winter, 45°, dms lb. .15 .16
tankcars lb. .14 - —
Spruce, cns., dms lb. 2.00 - 2.25
Sunflower-seed, imp., refined, tanks lb. No prices.
semi-refined, tanks lb No prices.
Sweet birch, USP, Northern, cns. lb. 4.95 - 8.00
Southern, cns. lb. 2.00 - 3.50
Tall, crude, tanks, works ton. 50.00 - —
refined, dms., c.l., works lb. .06¾- .07
l.c.l., works lb. .07 - .07¼
tanks, works lb. .05½- .05¾
Tallow, acidless, dms lb. .19 - .19½
Tansy, dms lb. 8.60 - 9.00
Tar, pine, com'l, dms., incl., c.l., works, South lb. .051 - —
l.c.l., works, South lb. .0534- —
whse., N.Y.C. lb. .0678- —
tanks, works, South lb. .041 - —
rectified, N.F., l.c.l., dms., extra, works, South gal. .67 - —
whse, N.Y.C. gal. .77 - —
Tar acid (see T).
Teaseed, dms. lb. No stocks.

Oil, Theobroma (see Cocoa butter)
Thyme, NF, red, cns., dms lb. 1.60 - 2.85
white, cns. lb. 1.80 - 3.10
technical, white, cns lb. .40 5.00
Tung, dom., tanks, mills lb. .24¾- —
imported, dms., c.l. lb. .26½- —
l.c.l. lb. .27 - —
tanks lb. .25¼- .25½
Turkey red (see Oil, castor, sulphonated).
Turpentine, NF, cns., dms lb. .28 - .58
Vetiver, Bourbon, cns lb. 25.00 -30.00
Haitian, cns lb. 21.00 -26.00
Java, cns lb. 22.00 -26.00
Whale, ref., natural, dms lb. No stocks.
winter-bleached, dms lb. No stocks.
Wheat germ, 5-gal dms gal. 10.00 -13.00
White mineral, tech., 50-65 vis., dms., c.l., N. Y. gal. .50½- .53¼
l.c.l., same basis gal. .56½- .67½
65-75 vis., dms., same basis, gal. .51½- .54¼
l.c.l., same basis gal. .57½- .63½
USP, 80-90 vis., dms., c.l., same basis gal. .52½- .55¼
125-135 vis., dms., c.l., same basis gal. .58½- .61¼
l.c.l., same basis gal. .64½- .70½
145-155 vis., dms., c.l., same basis gal. .67¼- —
l.c.l., same basis gal. .76½- —
175-185 vis., dms., c.l., same basis gal. .68½- .71¾
l.c.l., same basis gal. .74½- .81
200-210 vis., dms., c.l., same basis gal. .71½- .73¾
l.c.l., same basis gal. .77½- .83
335-345 vis., dms., c.l., same basis gal. .76 - .78¾
l.c.l., same basis gal. .82 - .88
Wintergreen, USP, nat., Northern, cns. lb. 6.00 -18.00
Southern, cns lb. 3.25 -19.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).

Oil, wormseed, NF, cns lb. 6.35 - 6.75
Wormwood, cns lb. 6.75 - 7.50
Ylang-ylang, Bourbon, bots lb. 16.00 -18.00
extra, bots. lb. 18.50 -25.00
Madagascar, bots lb. No stocks.
Olein, crude (see Oil, red).
white, low titre, dms lb. .25 - .26¼
tankcars lb. .23½- —
Oleostearin, bbls lb. .17 - .17½
Olivine, aggregate, c.l., mines ton. 7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works ton. 10.00 - —
paper bgs., c.l., works ton. 12.00 - —
Opium, USP, cns. lb. 19.20 -19.45
gran., USP, cns. lb. 21.65 -21.90
powd., USP cns. lb. 21.65 -21.90
Orange cadmium lithopone bbls. frt. alld. E. of Rockies lb. 1.55 - —
Chrome, CP bbls., dlvd N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island St. Louis, St. Paul lb. .30 - .38½

Chrome orange prices are ½c. higher, dlvd Ala., Fla., Ga., La. (Shreveport); 1¼c Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chrome dinitroanilin toner lb. 1.15 —
Mineral, American, bbls., l.c.l., ship't point, frt. alld. lb. .2310- —
Molybdate, bbls. lb. .42 - .43
Persian, bbls lb. 30 - 45
Orange flowers, tis lb 40 .45
Peel, bitter, Haitian, bls lb. .13 - .15
sweet, bls. lb. .15 - .18
Oregano, Mexican, bgs lb. .15½- .16
Italian, bgs lb. .18 - .18½
Portuguese, bgs. lb. .15 - .15½
Orris root, Florentine, bls lb. .18 .20
powdered, bbls., bxs lb. .23 - .24
Verona, bls lb. .15 - .18
powdered, bbls., bxs lb. .19 - .24
Ortho-terphenyl, dms., c.l., works lb. .32½- —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .31 - —
Orthoanisidin, bbls lb. .80 - —
Orthochloroanilin, dms. 10,000 lbs. or more lb. .60 - —
smaller lots lb. .70 - —
Orthochloroparanitroanilin, dms., dlvd lb. .66 - —
Orthochlorophenol, dms., c.l., frt. equald lb. .29 - —
l.c.l., same basis lb. .30 - —
Orthocresol, pure, 30° C, non-ret., dms., c.l., frt. equald lb. .178 - —
l.c.l., same basis lb. .181 - —
ret. dms., c.l., same basis lb. .165 - —
l.c.l., same basis lb. .168 - —
29° C, non-ret. dms., c.l., same basis lb. .168 - —
l.c.l., same basis lb. .171 - —
ret. dms., c.l., same basis lb. .155 - —
l.c.l., same basis lb. .158 - —
24-29° C, non-ret. dms., c.l., same basis lb. .148 - .158
l.c.l., same basis lb. .151 - .161
tanks, same basis lb. .135 - .145
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies lb. .10¼- —
l.c.l., same basis lb. .11¼- .11½
tanks, same basis lb. .08¾- —
Orthoisopropyl N-phenylcarbamate (see IPC).
Orthonitroanilin, dms lb. 50 .53
Orthonitrochlorobenzene, dms lb. .18 .19
Orthonitrobiphenyl, tech., dms., c.l., works lb. .14½- —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Orthonitroparachlorophenol, cns lb. 75 - —
Orthonitrophenol, bbls., works lb. .85 - —
Orthonitrotoluene, dms., c.l., frt. alld. lb. 09 - —
l.c.l., frt. alld lb. .10 - —
tanks, frt. alld lb. .08 - —
Orthophenetidin, dms., works lb .90 —
Orthotoluidin, dms., c.l., works lb. .21 - —
l.c.l., same basis lb. .22 - —
tanks, same basis lb. .20 - —
Osage orange crystals, bbls., l.c.l. lb. 33½- —
extract, liquid, bbls., l.c.l. lb. 15½- —
Orthotolidin, (see Tolidine Base).
Ouabaine, USP, lots gram 3.00 4.00
Ox gall, dried, gran. or powd., dms., 5 lbs. and up lb. 4.35 - —
Oxyquinolin sulphate, cns., 100-lb. lots, works lb. 4.75 - —
smaller lots, works lb. 5.00 - —

## P

Pancreas substance, assay 1:75 lb. 5.75 - 6.25
Pancreatin, USP., bots lb. 2.50 - 3.00
Panthenol, bots, works, frt. adjust. kilo. 90.00 —
Papain, powd., NF, cs lb. 4.00 - 5.25
Papaverine, natural or synthetic, hydrochloride, USP cns., 1,000-oz. lots oz. 5.00 —
smaller lots oz. 5.05 5.20
Sulphate, cns oz. 7.10 7.35
Paprika, Chilean, bgs lb. .29½- Nom.
Portuguese, bgs lb. .39 .40
Spanish, bgs lb. .42 - .45
Para-anisidin, dms, works lb. .80 —
Para-acetylaminobenzaldehyde thiosemicarbazone, dms., frt. adjusted lb. 17.50 -21.00
Para-aminophenol, bbls., frt. alld lb. .88½- —
Parachlorophenol, dms., c.l., frt. equald lb. .29 - —
l.c.l., same basis lb. .30 - —
Parachloroanilin, dms., frt. alld. E. Miss lb. 70 - —
Parachloro-orthonitroanilin, dms., frt. alld. lb. .70 - —
Paracresol, 98%, dms., dlvd lb. .50 - —
Paracymene, dms., works, 50 gals. or more gal. 2.50 - —
smaller quantities gal. 3.00 - —
Paradibromobenzene, bgs., 500-lb lots. lb. .45 - —
Paradichlorobenzene, dms., c.l., works lb. .13½- —
l.c.l., same basis lb. .16 - .19
Paraffin, crude, scale, white or yellow, 119-121 ASTM, bbls., c.l., refinery lb. No prices.
121-123 ASTM, bbls., c.l., ref'y lb. No prices.
126-128 ASTM, bbls., c.l., ref'y lb. No prices.
fully ref'd, slabs, 122-124 ASTM, loose, c.l., ref'y lb. .0695- —
125-127 ASTM, loose, c.l., ref'y lb. .0695 - —
130-132 ASTM, loose, c.l., ref'y. lb. .0705- —
132-134 ASTM, loose, c.l., ref'y lb. .0720- —


NOW!

A SOLVENT for ODORLESS PAINTS

Shell 410* Thinner

Available in substantial quantities for the trade

Repeated use of this type solvent in paints for stores, hospitals, hotels and homes has demonstrated that use by occupants *immediately after painting* is perfectly practicable . . . gone are objectionable odors that bring delays and complaints. A significant trend in this direction is already established in the industry.

We will be glad to send you additional information about Shell 410 Thinner. Samples for your evaluation will be sent upon receipt of your letterhead request.

* *°F end point*

SHELL OIL COMPANY

50 WEST 50TH STREET, NEW YORK 20, NEW YORK

SHELL

| | | | |
|---|---|---|---|
| Paraffin, fully refd., slabs, 135-137 ASTM, loose, c.l., ref'y | lb. | .0753- | — |
| Paraffin prices in bags and ctns., c.l., 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs., 3.7c. per lb. higher. | | | |
| Paraformaldehyde, 94-95% powd., dms., c.l., dlvd., N.Y. | lb. | .16 - | .18 |
| 10,000 lbs. to c.l. same basis | lb. | .17½- | .18¾ |
| 1,000-9,999 lbs. same basis | lb. | .18½- | .19½ |
| less than 1,000 lbs. same basis | lb. | .20½- | .22 |
| 94-95%. powd., dms., c.l., works | lb. | .14 - | — |
| 10,000 lbs. to c.l. same basis | lb. | .15 - | — |
| 1,000-9,999 lbs., same basis | lb. | .16 - | — |
| less than 1,000 lbs., same basis | lb. | .18 - | — |
| 91-92%, flake, fib. dms., c.l., N. Y. delivery | lb. | .14 - | — |
| 10,000 lbs., to c.l., same basis | lb. | .15½- | — |
| 1,000-9,999 lbs., same basis | lb. | .16½- | — |
| less than 1,000 lbs., same basis | lb. | .18½- | — |
| 91-92%, flake, fib. dms., c.l., works | lb. | .12 - | — |
| 10,000 lbs to c.l., same basis. | lb. | .13 - | — |
| 1,000-9,999 lbs., same basis. | lb. | .14 - | — |
| less than 1,000 lbs., same basis | lb. | .16 - | — |
| Paraldehyde, tech., 98% 30 gals., dms., l.c.l., works | lb. | 12½ | .13¼ |
| 5-10-gal. dms., l.c.l., works | lb. | .16½ | — |
| tanks, works | lb. | .10½ | — |
| USP chys | lb | 51 | 53 |
| Paranitroanilin, dms., c.l., works, frt. alld | lb. | .45½- | — |
| l.c.l., frt. alld | lb. | .46½- | — |
| Paranitrochlorobenzene kgs. works. | lb. | .19 | .20 |
| Paranitrophenol kgs. works, frt. equald | lb. | .42 - | — |
| Paranitrotoluene, kgs., frt. alld | lb. | .33 - | — |
| Paraphenetidin, dms., works | lb. | .80 - | — |
| Paraphenylphenol, bgs., c.l., works. | lb. | .31½- | — |
| l.c.l., same basis | lb. | .32½- | — |
| Paraphenylenediamine, redistilled, dms., works | lb. | 2.30 - | 2.80 |
| technical, refined dms. same basis | lb. | 1.05 | 1.30 |
| Paratertiarybutylphenol, bgs., c.l., works | lb. | .23½- | — |
| l.c.l., same basis | lb. | .24½- | — |
| Parathion, spray powder, 15%, dealers, tins | lb. | .72 - | — |
| tech., dms., works | lb. | 1.50 | 2.50 |
| Paratoluenesulphonamide, bbls., works | lb. | .70 | — |
| Paratoluidin, bbls., frt. alld | lb. | .61 - | — |
| Pareira brava root, whole, bgs | lb. | .35 - | .40 |
| ground, bxs | lb. | .40 - | .46 |
| powder, bxs | lb. | .43 | .50 |
| Paris green, dealer distributor, dms., dms., c.l., works, frt. alld. on 96 lbs. or over | lb. | .35 - | .39 |
| l.c.l., same basis | lb. | .36 - | .68 |
| Passion flower herb, bls | lb. | .35 - | .40 |
| Patchouli leaves, bls | lb | No stocks. | |
| Peanut meal 45% sacked, mill. | ton. | 63.00 | -65.00 |
| Pectin, citrous, NF, powd., bbls | lb | 2.05 | 2.06 |
| tech., powd., bbls | lb. | 1.35 - | — |
| Penicillin, crystalline potassium, unlabeled vials, 100,000 units | vl. | .102 | — |
| 200,000 units | vl. | 15½- | — |
| 500,000 units | vl | 28 | — |
| 1,000,000 units | vl. | 52 | — |
| 2,000,000 units | vl | 1.00 | — |
| bulk, sterile, over 25,000,000,000 unit lots 100,000 units | | .04 | — |
| tablet grade, over 25,000,000,000 unit lots 100,000 units | | 03½- | — |
| procaine, bulk, over 25,000,000,000 unit lots 100,000 units | | .04½- | — |
| sodium, unlabeled, vials 100,000 units | vl. | .10¾- | — |
| 200,000 units | vl. | .16 - | — |
| 500,000 units | vl. | .30½- | — |
| 1,000,000 units | vl. | .57 - | — |
| 2,000,000 units | vl. | 1.03 | — |
| bulk over 25,000,000,000 unit lots 100,000 units | | .04½ | — |
| Pennyroyal leaves, bls | lb | 40 | 45 |
| Pentachlorophenol, dms., c.l. works, frt equald | lb | .20 | — |
| l.c.l., same basis | lb | .23 | .28 |
| truckload 20,000 lbs., min., same basis | lb | 20¼- | — |
| Pentaerythritol, tech., bgs., c.l., works | lb. | .32 - | — |
| l.c.l., works | lb. | .33 - | .35 |
| Di and tri-isomers (see Dipentaerythritol and Tripentaerythritol) | | | |
| Pentane industrial tanks group 3 | gal | 10¼ | 11⅛ |
| Pepper, black, spot, bgs | lb. | 1.37 - | 1.38 |
| December shipment, bgs | lb. | 1.47 - | 1.48 |
| January-March shipment, bgs. | lb. | 1.35 - | 1.36 |
| Red, Carolina, longs, bgs | lb. | .30 - | .31 |
| Haitian, bgs | lb. | .45 - | .46 |
| Hontaka, bgs | lb. | .32 - | .33 |
| Louisiana longs, bgs | lb. | .27 - | .28 |
| Mexican sports bgs | lb. | .35 | .36 |
| Mississippi sports, bgs, source Oct. shipment | lb. | .35 - | .36 |
| Nigerian, caps, bgs | lb. | .30 - | .31 |
| Sierra Leone, bgs | lb | 42 | 43 |
| Sudanese small, bgs | lb | 42 | 43 |
| Turkish, bgs | lb. | .20 - | .21 |
| White, bgs | lb. | 2.75 - | — |
| November delivery, bgs | lb. | 2.65 - | — |
| Peppermint, USP, dom., bls | lb. | .55 | .60 |
| imported bls | lb | 80 | .90 |
| Pepsin, NF, bulk, containers | lb. | 3.90 - | — |
| Perchloroethylene, dms., c.l., or truckload, works | lb. | .11 - | — |
| l.c.l., same basis | lb. | .11¾- | — |
| tanks, same basis | lb. | .10 - | — |
| Perchloroethylene, dms., c.l., dlvd. E | lb. | .12 - | — |
| l.c.l., dlvd. E | lb. | .12½- | — |
| tanks, dlvd. E | lb. | .11 - | — |
| Peru, balsam, dms | lb. | 1.20 - | 1.30 |
| Petrolatum, amber, c.l., dms | lb. | .05⅞- | .06 |
| l.c.l., same basis | lb. | .06⅞- | .07⅛ |
| cream, dms., c.l. | lb. | .07⅜- | .07½ |
| l.c.l., same basis | lb. | .08⅜- | .08⅝ |
| extra amber, dms., c.l. | lb. | .06¼- | .06¼ |
| l.c.l | lb. | .06⅞- | .07⅛ |
| USP, white, lily, dms., c.l. | lb. | .07⅜- | — |
| l.c.l. | lb. | .08⅜- | .09¼ |
| snow, dms., c.l. | lb. | .08¼- | — |
| l.c.l. | lb. | .08⅞- | .09¾ |
| soft, dms., c.l. | lb. | .08 - | — |
| l.c.l. | lb. | .08¼- | .08⅞ |
| yellow, soft, dms., c.l. | lb. | .06¼- | — |
| l.c.l. | lb. | .06¾- | — |
| Petroleum, crude, bulk, at wells, California | bbl | 1.10 | 2.99 |
| Illinois | bbl | 2.44 | 2.87 |
| Kentucky | bbl | 2.42 | 2.83 |
| Louisiana Arkansas | bbl | 2.08 | 2.90 |
| Montana | bbl | 1.28 | 2.775 |
| Oklahoma-Kansas | bbl | 2.16 | 2.65 |
| Pennsylvania lower field | bbl. | 3.67 - | — |
| Upper field | bbl. | 4.10 - | — |
| Petroleum, crude, bulk, at wells, Texas, East | bbl | 2.65 | — |
| Gulf coast | bbl | 2.38 | 2.95 |
| North, North-Central | bbl | 2.28 | 2.65 |
| Panhandle | bbl | 2.23 | 2.65 |
| West | bbl. | 2.33 | 2.65 |
| Wyoming | bbl | 1.28 | 2.675 |
| Ether, laboratory, 30°-60° C. 10-gal. cns. dlvd. E | gal | 1.50 | — |
| dms., c.l. group 3 | gal | 26 | — |
| l.c.l., same basis | gal | 44 | — |
| 35°-60° C. 10-gal. cans, dlvd. E | gal. | 1.50 - | — |
| dms., c.l. Group 3 | gal | 26 | — |
| l.c.l., same basis | gal | 44 | — |
| 40°-75° C. 10-gal cns., dlvd. E | gal | 1.50 | — |
| dms., c.l. Group 3 | gal | 26 | — |
| l.c.l. same basis | gal | 44 | — |
| 90°-150° C. ret dms., ex tax, f.o.b. San Francisco | gal | 37 | — |
| Fuel oil, bunker C, No. 6, California, heavy tanks, refinery | bbl. | 1.70 - | 1.90 |
| light, tanks, refinery | bbl. | 2.00 - | 2.10 |
| eastern, tanks, Albany, N. Y. | bbl. | 2.50 - | — |
| Baltimore, Md | bbl. | 2.18 - | — |
| Boston, Mass | bbl. | 2.20 - | — |
| Charleston, S. C. | bbl. | 2.13 - | — |
| Jacksonville, Fla | bbl. | 2.12 - | — |
| N. Y. Harbor | bbl. | 2.15 - | 2.25 |
| Norfolk, Va | bbl. | 2.18 - | — |
| Philadelphia, Pa | bbl. | 2.18 - | 2.33 |
| Portland, Me | bbl. | 2.23 - | — |
| Providence, R. I. | bbl. | 2.175 - | — |
| Savannah, Ga | bbl. | 2.13 - | — |
| Diesel, tanks, refinery, California | gal. | .075 - | .115 |
| Pennsylvania | gal. | .0975- | .10 |
| Furnace, tanks, refinery, Arkansas, No. 2 | gal. | .0825- | — |
| No. 3 | gal. | .07875- | — |
| Petroleum fuel oil, furnace, tanks, refy., N. Y. Harbor, No. 2. | gal. | .091 - | .092 |
| Group 3, No. 1 | gal. | .0875- | .0925 |
| No. 1, straw | gal. | .0875- | .0925 |
| No. 2 straw | gal. | .08125- | .08625 |
| range | gal. | .0875- | .09 |
| Pennsylvania, western, No. 1. | gal. | .105 - | — |
| No. 2 | gal. | .10 - | .105 |
| No. 3 | gal. | .10 - | — |
| Lacquer diluent, California, 170-225 F. b.r., tanks, ex tax, f.o.b. Los Angeles | gal. | .147 - | — |
| 205 F. o.r. tanks ex tax. | | | |
| Portland Ore | gal | 158 | — |
| San Francisco | gal | 152 | — |
| Seattle Wash | gal | 158 | — |
| East coast, tanks, N. J. and N. Y. refinery | gal. | .16 - | — |
| group 3, benzol-type, tanks refinery | gal. | .13125- | .13625 |
| toluol-type tanks refinery | gal. | .12125- | .12625 |
| Mineral spirits, California, 170-205 b.r., tanks, ex tax, f.o.b. San Francisco | gal. | .152 - | — |
| 205-285 b.r. tanks, same basis | gal. | 152 - | — |
| 245-360 b.r. tanks, same basis | gal | 152 - | — |
| 305-362 b.r., tanks, same basis | gal | 142 - | — |
| 312-400 b.r., tanks, same basis | gal | 142 - | — |
| 360-455 b.r., tanks, same basis | gal | 152 - | — |
| East coast tanks N. J. N. Y., | gal. | .16 - | — |
| group 3, tanks | gal | .10875- | — |

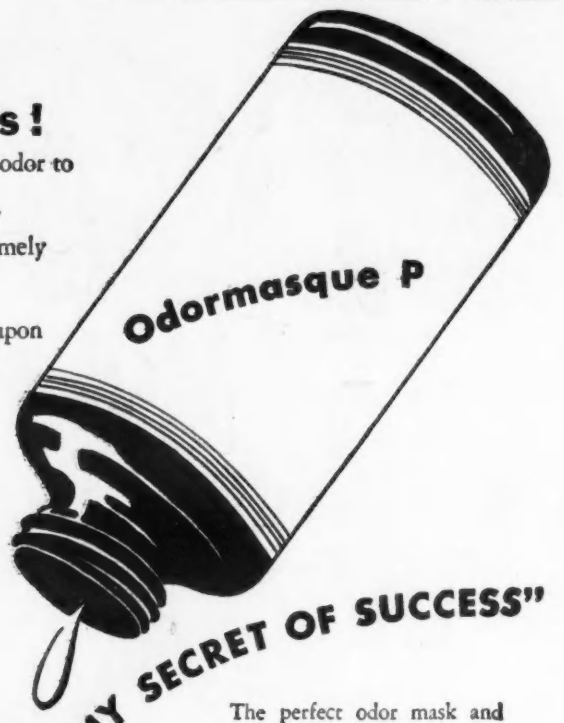
## Paraffin—Petroleum, Naphtha

| | | | |
|---|---|---|---|
| Petroleum, mineral spirits, tankwagon, Baltimore | gal. | .18½- | .19¼ |
| Boston | gal. | .17 - | .18 |
| Buffalo | gal. | .17½- | .18¼ |
| Newark | gal. | .16 - | .17 |
| New York | gal. | .16 - | .17 |
| Philadelphia | gal. | .15½- | — |
| Pittsburgh | gal. | .18 - | .19 |
| Providence | gal. | .17½- | .18¼ |
| Rochester | gal. | .19 - | .20 |
| Syracuse | gal. | .20 - | .21 |
| Washington, D. C. | gal. | .18½- | .19¼ |
| Naphtha, cleaners, East Coast, tanks, N. J., N. Y., refinery | gal. | .16 - | — |
| Group 3, tanks | gal. | .11875- | — |
| tankwagon, Newark | gal. | .15½- | .16¼ |
| New York | gal. | .16 - | .17 |
| Philadelphia | gal. | .15 - | .16 |
| high-flash, 140° F., group 3, refinery, tanks | gal. | .13 - | .145 |
| 200-285 b.r., 37-38° C., mixed anilin pt., tanks, refinery or terminal | gal. | .25½- | — |
| 25-26° C., m.a.p., tanks, same basis | gal. | .24 - | .30¼ |
| 270-370 b.r., 78-81° C., m.a.p., tanks, same basis | gal. | .29 - | — |
| 49° C., m.a.p., tanks, same basis | gal. | .32 - | — |
| 26-27° C., m.a.p., tanks, same basis | gal. | .24 - | .33 |
| 300-400 b.r., 28-32° C., m.a.p., tanks, same basis | gal. | .24 - | .30¼ |
| 340-410 b.r., 36° C., m.a.p., tanks, same basis | gal. | .24 - | — |
| 32° C., m.a.p., tanks, same basis | gal. | .24 - | — |
| 27° C., m.a.p., tanks, same basis | gal. | .34½- | — |
| 350-425 b.r., 32° C., m.a.p., tanks, same basis | gal. | .30 - | .30¼ |


**Scents mean dollars!**

Odormasque P gives a pleasant, mellow odor to paints, solvents, mineral terps, kerosene, insecticides, and similar items. It's extremely economical to use!

MANUFACTURERS ONLY: Send the coupon today for a free sample.



"MY SECRET OF SUCCESS"

The perfect odor mask and covering agent for More Success in Selling:

Paints
Solvents
Insecticides
Mineral Terps
Inks
and Many Others

*Manufactured by Albert Albek, Inc., Culver City California*

NUNCA YARA ALBEK

Albert Albek, Inc.
3573 Hayden Ave.
Culver City, California

Please send a free sample and more information about Odormasque P.

NAME_____
COMPANY_____
ADDRESS_____
CITY_____
ZONE____ STATE_____

## Petroleum Naphtha, V.M.&P.—Potash Caustic

Petroleum, naphtha, V.M.&P., tanks, ref'y, California, 245-360
- b.r., Los Angeles gal. .147 - —
- Portland, Ore gal. .158 - —
- San Francisco gal. .152 - —
- Seattle Wash gal. .158 - —

East coast, N. J., N. Y., tanks gal. .17 - —
- Group 3, tanks gal. .11875- —
- tankwagon, Boston gal. .18½- .19¼
- Newark gal. .17½- .18½
- New York gal. .17½- .18½
- Philadelphia gal. .17 - .18
- Pittsburgh gal. .19 - .20

Solvent, rubber, California, tanks, ex tax, San Francisco gal. .152 - —
East coast, N. J., N. Y., gal. .17 - —
- Group 3, tanks gal. .11875- —
- Pennsylvania, western, tanks gal. .1225- —

Stoddard, California, tankwagon, ex-tax, Los Angeles gal. .157 - .165
East coast, N. J., N. Y., tanks gal. .16 - —
- Group 3, tanks gal. .11375- —
- tankwagon, Boston gal. .17 - .18
- Newark gal. .16 - .17
- New York gal. .16 - .17
- Philadelphia gal. .14 - .15
- Pittsburgh gal. .18 - .19
- Syracuse gal. .20 - .21

Sulphonate, 70% sulphonic content, non-ret. dms., c.l., works lb. .2040- —
- l.c.l., works lb. .2065- —
- tanks, works lb. .1850- —

60-62% sulphonic content, non-ret. dms., works lb. .1865- —
- l.c.l., works lb. .1890- —
- tanks, works lb. .1675- —

Petroleum sulphonate, 50-55% sulphonic content, non-ret. dms., works lb. .1590- —
- l.c.l., works lb. .1615- —
- tanks, works lb. .14 - —

Phenobarbital, USP dms., 100 lbs. lb 4.00 4.35

Phenobarbital-sodium, USP dms lb. 4.00 4.10

Phenol, 90-92% (cresol, 8-10%), dms., c.l., frt. alld. and frt. equald. E. of Rockies. lb. .1650- —
- l.c.l., same basis lb. .1725- —
- tanks, same basis lb. .1475- —

82-84% (cresol, 16-18%), dms., c.l., same basis lb. .1650- —
- l.c.l., same basis lb. .1725- —
- tanks, same basis lb. .1475- —

USP, synthetic, dms., c.l., same basis lb. .17¼- —
- l.c.l., same basis lb. .18 - —
- tanks, same basis lb. .15½- —

tar, distilled, dms., c.l., same basis lb. .17¼- —
- l.c.l., same basis lb. .18 - —
- tanks, same basis lb. .15½- —

Phenolphthalein, USP or yellow bbls., dms., 2,000 lbs. lb. 1.10 - —
- smaller lots lb. 1.12 - 1.17

Phenothiazin, NF, fib. dms., c.l., frt. adjusted lb. .46 - —
- over 2,100 lbs., same basis lb. .49 - —
- less than 2,100 lbs., same basis lb. .50 - —

Phenylacetaldehyde solution, 50%, bots lb. 2.45 - 2.70
- 100% bots lb. 4.00 4.75

Phenylacetamide, 125-lb. dms., works, lb. lots lb. 1.25 - —
- smaller dms., works lb. 1.30 - 1.60

Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —

Salicylate (see Salol).

Phenylalanine dextro laevo, dms., works lb. 27.00 -37.50

Phenyldiethanolamine, dms., c.l., works lb. .35½- —
- l.c.l., works lb. .35 - .36½

Phenylethanolamine, dms., c.l., works lb. .67½- —
- l.c.l., same basis lb. .68½- —

Phenylethyl acetate, dms. lb. 1.40 - 1.80

Phenylethylphenyl acetate, bots lb. 3.75 - 4.20

Phenylhydrazin base, CP, bots lb. 3.00 - 3.07

Hydrochloride, commercial, kgs., works lb. 1.75 - —
- CP, bots., works lb. 5.12 - —

Phenylisocyanate, dms., frt. equald. lb. 1.25 - —

Phenylmethylpyrazolone (see Methylphenylpyrazolone).

Phloroglucinol, CP, fib. dms. works. lb. 15.00 -15.75
- commercial, fib. dms., works lb. 6.40 - —
- tech., fib., dms., works lb. 9.40 - 9.65

Phosgene, 150-lb. cyls., works lb. .20½- —

Phosphate, defluorinated (see under D)

Phosphate rock, Curacao, Atlantic ports ton. 35.00- —

Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70%-68%, b.p.l., c.l., same basis long ton. 4.35 - 4.40
- 72%-70%, b.p.l., c.l., same basis long ton. 5.00 - —
- 75%-74%, b.p.l., c.l., same basis long ton. 6.00 - —
- 77%-78%, b.p.l., c.l., same basis long ton. 7.00 - —

Phosphate rock, Florida, finely ground, 65% b.p.l., basis 30% $P_2O_5$ minimum bulk, c.l., mines short ton. 4.92 - —
- 68% b.p.l., basis 31% $P_2O_5$ minimum mines, short ton. 5.28 - —
- 70% b.p.l., basis 32% $P_2O_5$ minimum mines, short ton. 5.83 - —

plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble, 50c. per long ton higher than above quotations.

Tennessee, brown, run of mine, unground, 27-28% $P_2O_5$, c.l., mines long ton. 6.45 - —
- 30-29% $P_2O_5$ c.l., mines long ton. 7.21 - —

Phosphorus, red, amorphous, cs., works lb. .42 - —
- dms., works lb. .39 - .40
- Yellow cns. lb. .30 - .37
- dms., c.l. lb. .26 - —

Oxychloride, dms., works lb. .14 - .17

Pentasulphide, dms., c.l., works, lb. .12 - —
- l.c.l., dms., works lb. .13 - .14

Pentoxide, dms., c.l., works lb. .12 - —
- l.c.l., works lb. .13 .14

Sesquisulphide, tins, cs., works. lb. .23 - .29
- dms export lb .33½ .36

Trichloride, dms., c.l., works lb. .14 - —
- l.c.l., works lb. .15 - .16

Phthalic annydride bgs. c.l., works, frt. equald lb. .17½- .20½
- l.c.l., same basis lb. .18½- .21½
- tanks, same basis lb. .17 - .18½

Bbls. ½c. per pound higher.

Phthalimide, bbls. works lb 1.10 1.37

Pichi leaves, bgs lb. .08 - .10

Picoline (see Alphapicoline and Betapicoline)

Pilocarpine hydrochloride, NF bots. oz. 5.25 - —
- Nitrate, USP, bots., vials oz. 5.10 - —

Pimento, Jamaica, bgs. lb. .24½- .25

Pinetar retort, dms. incl., c.l., works, South lb. .051 - —
- l.c.l., same basis lb. .0534- —
- whse., N.Y.C. lb. .0678- —
- tanks, works, South lb. .041 - —

Pinkroot, bls. lb. 1.75 - 1.90

Piperidine 95% min. frt. equald. lb 1.65 - —
- 98% dms., same basis lb. 1.75 - —

Piperazine hexahydrate, bots. kilo 12.50 -13.25

Pipsissewa herb (see Prince's pine).

Pitch, burgundy, domestic, dms. inc., works, South, 1 to 4 dms. lb. .08 - —
- 5 to 19 dms lb. .0775- —
- 10 or more dms lb. .0755- —
- whse., N.Y.C., 1 to 4 dms lb. .0892- —
- 5 to 19 dms lb. .0867- —
- 20 or more dms lb. .0847- —

Coaltar, 150° F. m.p., bbls., c.l., works ton. 34.00 -37.00
- l.c.l., works ton. 37.00 -41.00

Cottonseed, dms., works lb. .08 - .10

Hardwood, paper bgs. c.l., works. lb. .02 - —

Linseed, dms. lb. .06 Nom.

Petroleum (see Asphaltum, Mexican Texas)

Pine, dms., dms. inc., l.c.l., works, South 100 lbs. 3.75 - —
- Soybean, dms., works lb. .05 Nom.
- Tall, dms., works lb. .06 - .06½

Plaster of paris (see Gypsum)

Platinum metal, works oz. 90.00 -93.00

Pokeroot, bls. lb. .15 - .18

Pleurisy root, bls lb. .25 - .26

Podophyllin NF dms lb. 12.45 - —

Polyoxyethylene sorbitan monostearate dms. 20,000 lbs., works lb. .42 - —
- 10,000-20,000 lbs., works lb. .44 - —
- smaller lots, works lb. .47 - .49

tristearate, dms., 20,000 lbs., works lb. .42 - —
- 10,000-20,000 lbs., works lb. .44 - —
- smaller lots, works lb. .47 - .49

Polystyrene, colors, special, bgs., over 30,000 lbs. frt alld lb. .30 - .31
- 20,000-29,999 lbs. same basis lb. .31 - .31½
- 10,000-19,999 lbs., same basis lb. .31½- .32
- 200-9,999 lbs. same basis lb. .32 - .32½

standard, bgs., over 30,000 lbs., same basis lb. .31 - —
- 20,000-29,999 lbs. same basis lb. .31 - —
- 10,000-19,999 lbs. same basis lb. .31½- —
- 200-9,999 lbs., same basis lb. .31½- —

crystals, heat-resistant, bgs., over 30,000 lbs., same basis lb. .27 - .28½
- 20,000-29,999 lbs., same basis lb. .28 - .29½
- 10,000-19,999 lbs., same basis lb. .29 - .30½
- 200-9,999 lbs. same basis lb. .29 - .30½

standard, bgs., over 30,000 lbs., same basis lb. .27 - —
- 20,000-29,999 lbs., same basis lb. .28 - —
- 10,000-19,999 lbs., same basis lb. .29 - —
- 200-9,999 lbs., same basis lb. .29 - —

Polystyrene in non-returnable fiber dms. ½c. per lb higher.

Pomegranate root bark, bgs. lb. .60 - .65

Poppy flowers, bls. lb. .85 - .90

Seed, Argentine, bgs. lb. .15¾- .16

Czech, bgs. lb. .16 - .16½

Dutch, bgs lb. .19 - .19½

afloat, bgs lb. .19 - .19½

Polish, bgs. lb. .16 Nom.

Turkish, bgs., afloat lb. .15 Nom.

Potash, caustic, low-chloride, flake, 85% basis 90% KOH, dms., c.l., works 100 lbs. 10.00 - —
- l.c.l., works 100 lbs. 10.75 - —

liquid, 45%, dms., c.l., works, l.c.l., works 100 lbs. 5.125 - —
- tanks, works 100 lbs. 4.30 - —

solid, 90% dms., c.l., works, 100 lbs. 9.40 - —
- l.c.l., works 100 lbs. 10.15 - —

regular, flake 88-92%, dms., c.l., works 100 lbs. 8.50 - —
- l.c.l., works 100 lbs. 9.25 - —

liquid, 45% basis, dms., c.l., works 100 lbs. 3.875 - —
- l.c.l., same basis 100 lbs. 4.65 - —
- tanks, same basis 100 lbs. 3.55 - —

solid, 88-92% dms., c.l., works, 100 lbs. 7.90 - —
- l.c.l., same basis, works, 100 lbs. 8.65 - —

# YOU get Versatility with ESSO SOLVENTS

**Esso Solvents** are being used more and more in a great many different industries such as—paint—textiles—rubber—chemicals—food packaging—leather—many others—where *versatility* plus dependability are required.

**YOU CAN DEPEND ON ESSO SOLVENTS FOR**

- **VERSATILITY**—dependable quality for a wide range of uses.
- **ECONOMY**—closely-controlled quality assures constant, efficient industrial processing, high-quality products.
- **UNIFORMITY**—made in modern refineries from carefully selected crude oil sources.
- **CONTROLLED EVAPORATION**—available in a wide range of evaporation rates with precise characteristics to meet your requirements.
- **SOLVENCY**—Esso aliphatics and Solvesso aromatics cover both high and low solvency ranges.
- **MODERN HANDLING METHODS**—separate tank storage, pumping lines, tank cars and trucks are used in all Esso Solvent handling operations. Prompt, efficient delivery to your door is assured.
- **MULTI-STORAGE AVAILABILITY**—Water terminals in many industrial centers.

*Controlled high quality helps produce larger profits with versatile, dependable Esso Solvents.*

ESSO PETROLEUM SOLVENTS

SOLD IN Me., N. H., Vt., Mass., R. I., Conn., N. Y., N. J., Pa., Del., Md., D. C., Va., W. Va., N. C., S. C., Tenn., Ark., La.

ESSO STANDARD OIL COMPANY—Boston, Mass.—New York, N. Y.—Elizabeth, N. J. Philadelphia, Pa.—Baltimore, Md.—Richmond, Va.—Charleston, West Va.—Charlotte, N. C.—Columbia, S. C.—Memphis, Tenn.—New Orleans, La.

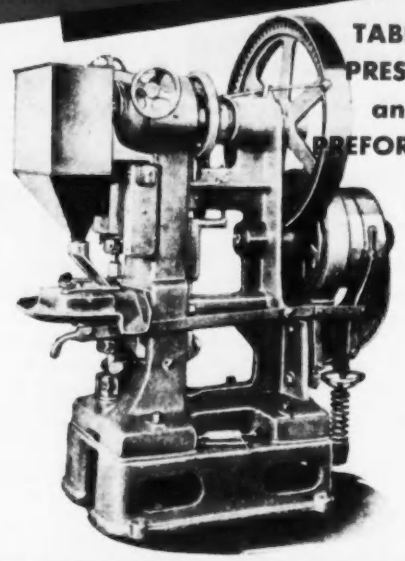
**FOR TECHNICAL ASSISTANCE**

If you have a solvents problem or want further information on the specifications and characteristics of Esso Solvents—write or call our office nearest you. Our technicians will be glad to assist you.

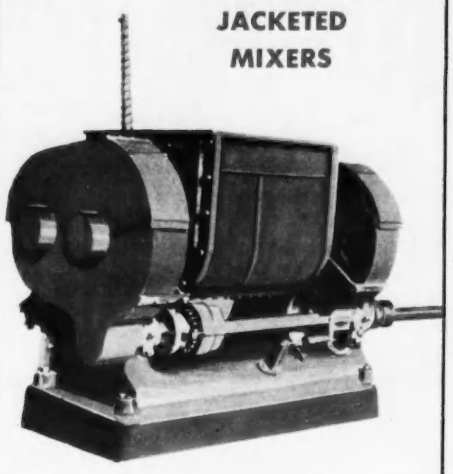
ADVERTISEMENT—*This entire page is a paid advertisement*

# Your FIRST Source Stands Ready with EQUIPMENT for Any Production Job

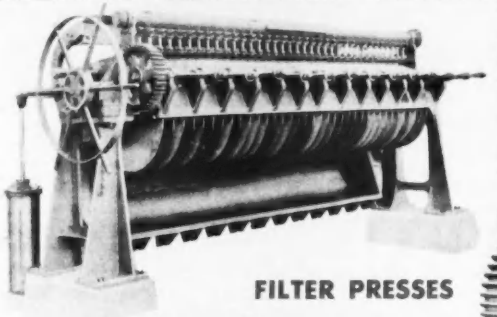
TABLET PRESSES and PREFORMERS



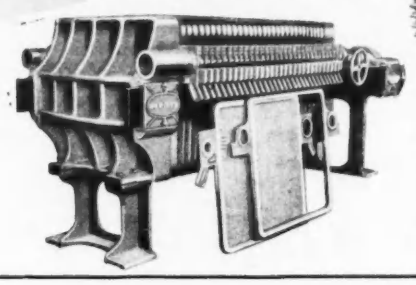
HEAVY DUTY JACKETED MIXERS



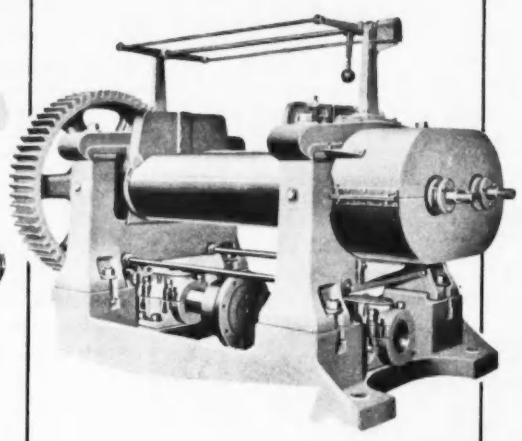
MULTI-EFFECT EVAPORATORS



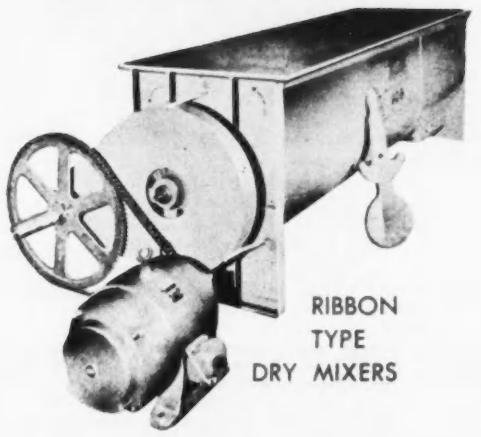
FILTER PRESSES



CALENDARS and RUBBER MILLS

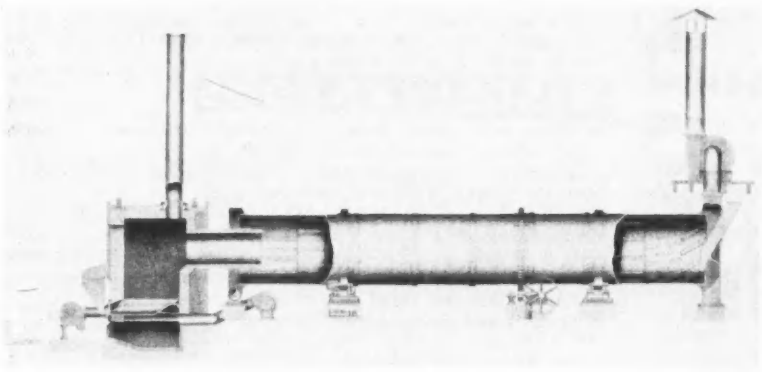


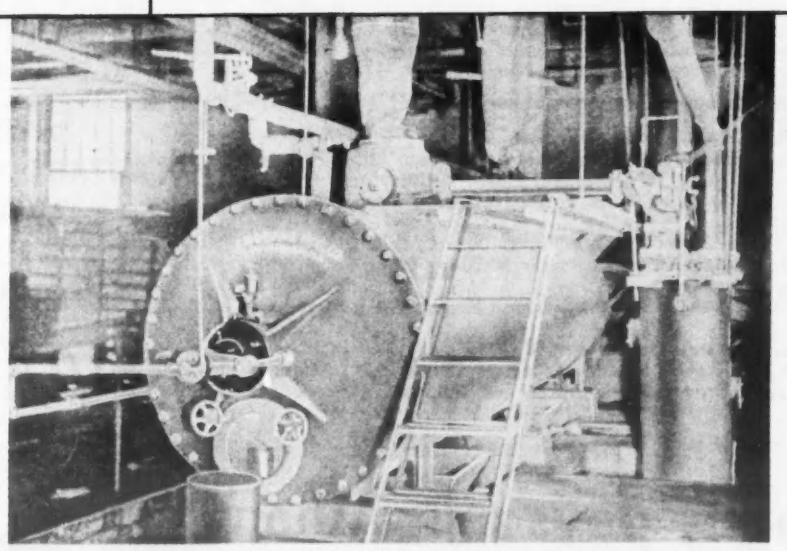
POWDER MIXERS IN STEEL AND STAINLESS



RIBBON TYPE DRY MIXERS

LOUISVILLE ROTARY DRYERS
Counter Current Type





DEVINE VACUUM ROTARY DRYER

FMC

# FIRST MACHINERY CORP.

157 HUDSON ST. • WORTH 4-5900 • NEW YORK 13, N. Y.

ADVERTISEMENT—*This entire page is a paid advertisement* *Printed in U.S.A.*

# FMC ONE GOOD SOURCE for ALL Types of PROCESSING EQUIPMENT

## AUTOCLAVES

Vertical Steel Digester, ASME 100 PSI; 69" x 16'
Horizontal Pressure Tunnel, 7' x 7' x 50' complete
Stainless Lined Pressure Vessel; 300 PSI; 50" x 18'
Vacuum Autoclave 5' x 14'; Bolted Head; 150 PSI
Patterson Jacketed Autoclave; 300 PSI; 36" x 42"

## COLLOID MILLS

Eppenbach, Premier, Charlotte, Marco, Cherry-Burrell, Manton Gaulin, Case, Colloid Mills, Homogenizers, Viscolizers, mostly Stainless contact parts equipped with motors up to 75 H.P.

## DRYERS

J. P. Devine Rotary Vacuum Dryer, 4½' x 18' complete
Pfaudler Glass Lined Rotary Dryer 24" x 120"
Heil Mobile Dehydrator or Rotary Multipass oil heated Dryer 7' x 16'
Louisville Dryers; 3' x 20', 6' x 30'; gas and steam tube
Buffalo Double Drum Dryers; 24" x 24" to 42" x 120"
Buffalo Chrome Plated Vac. Drum Dryer 5' x 12'
Struthers Wells Stainless Steel Drum Dryer 5' x 10'
Procter & Schwartz Continuous Conveyor Type Single Pass Dryer with Stainless Belt; 64' long, 11' wide; 9 sections
Procter & Schwartz Continuous Apron Dryer; 7'6" x 14'6" x 42'6"
Koch Electric Ovens; 42" x 69" x 66"; double compartment
3 Link Belt Rotolouvre Dryers; varying sizes
Bowen Stainless Spray Dryers; Lab. size and 18' x 52'
3 Continuous multipass Crystallizing Dryers with paddles 6" and 10" inside dia. 10' lengths

## EVAPORATORS-STILLS REACTORS-Vacuum Pans

Dover Steel 800 Gal. Evaporating Still 4' x 11'
Buffalo Steel Evaporator 12' x 40' with barometric condenser
2 Manistee Triple Effect Cast Iron 13' Evaporators
Zahm & Nagel Continuous Evaporator; 2500 lbs. per hour
Alberger Karbate Hydrochloric Acid Recovery System
Pfaudler 500 Gal. Glass Lined Vac. Vessels
Pfaudler 2500 Gal. Glass Lined Vac. Pan with Stainless Steel Coils
Resin Kettle 250 Gal. Stainless Jacketed Agitated
Lancaster 1800 Gal. Jacketed Stainless Digester
Dowtherm Jacketed Agitated Kettle; 1000 Gal. 57" x 7'
Stainless Jacketed Pressure Vessel; 4' x 5'
1200 Gal. Stainless Reactor; 60" x 93"
2 Stainless Horizontal Storage Tanks; 8' x 18' and oval 6' x 5' x 12'8"
Zaremba Triple Effect Copper Evaporator; 220 sq. ft. each effect
Majonnier Copper Calandria type Vacuum Pan 6' x 16'
Alberger Karbate Hydrochloric Acid Recovery System

## EXTRACTORS-CENTRIFUGALS

Tolhurst, Fletcher, American, Bird, Schaum & Uhlinger, Centrifugal Extractors in Stainless Steel, Copper, etc., sizes up to 60" Baskets
8 A. T. & M. Stainless Steel 60" Centrifugal Extractors with Vacuum and Pressure Tight Covers; Motorized
Centrifugal Clarifiers and Separators by Sharples, DeLaval, latest types in Steel and other Non-Corrosive Metals

## FILTER PRESSES

Shriver and Sperry Cast Iron Plate and Frame Filter Presses, 12", 24", 30" and 36" open and closed delivery
Sperry 36" Aluminum P. & F. Filter Presses closed delivery, washing
Sweetland Leaf Type Pressure Filters Nos. 2, 5, 7 and 12
Oliver United Dorrco Type Rotary Vacuum Filter 6' x 3' with nickel contact parts
2 Feinc String Type Rotary Vacuum Filters; 8'6" x 8' and 10'6" x 16'
Eimco Stainless Steel Drum Filter; 4' x 6'
Vallez No. 49 Rotary Pressure Filter; 31 Leaves; 558 sq ft. area
Large Stock of Alsop, Ertel, Bowser and Industrial Filters of all types

## SPECIAL OFFERINGS

**P. & S. CONTINUOUS CONVEYOR DRYER**
**S. S. BELT 7'6" w.**
**11' x 64'**
**9 SECTIONS**

**PFAUDLER GLASS LINED VACUUM REACTORS**

**J. H. DAY RO-BALL SIFTERS**
**40" x 120"**
**COMPLETE**

**DEVINE ROTARY VACUUM DRYER**
**4½' x 18½'**
**COMPLETE**

## KETTLES

30 Brand New Stainless Steel Jacketed Kettles in STOCK; jacketed for 100# steam; 50 gal. to 500 gal.
4 Good Used Stainless Steel Kettles, 50 gal., 100 gal.
22 Copper Steam Jacketed Kettles good used condition up to 300 gal.
14 Steel Jacketed Kettles also Cast Iron up to 1800 gal.

## MILLS

**Roller Mills**
Roy Allen, Kent, Ross and Day Three Roller Mills, 4" x 8", 6" x 12", 9" x 24",
12" x 30" and 16" x 40" some with motors
Lehman and Buhler Five Roller Mills

**Rubber Mills and Calenders**
8 Rubber Mixing Mills by Birmingham, Farrell, Thropp, etc., from 36" to 60"
3 Three Roll Calenders of standard make; 12" x 30", 18" x 54" and 24" x 66"

**Pulverizers, Grinders, Crushers and Hammer Mills**
6 Fitzpatrick Model D Stainless Steel Comminutors
6 Mikro Pulverizers from Bantam to No. 4, some with motors
FMC Model D80 Hammer Mill with Fan and Dust Collector
Robinson Heavy Duty No. 4 Hammer Mill with 60 H.P. motor
American Pulverizing Co. Ring Roll Crusher with 50 H.P. motor
Sturtevant Jaw Crusher with 10" x 10" throat
Sprout Waldron, Bauer and Robinson Double Runner Attrition Mills
Raymond No. 45 Imp Mills with manganese hammers
Simpson and Lancaster Muller Type Mixers; several sizes
Williams, Gruendler, Stedman, Prater, Jay Bee and other heavy duty Mills with motors up to 125 H.P.

**Pebble and Ball Mills**
6 Buhrstone Lined Abbe Pebble Mills; 130 gal. 45" x 42" and 290 gal. 54" x 60"
2 Abbe Steel Jacketed Ball Mills; 15" x 21" and 32" x 36" with balls and motors
Steel Ball Mill; 36" x 72" with 20 H.P. Motor and 3000# steel balls
Hardinge Conical Ball Mill; 3' x 8"; other Hardinge Mills up to 8' x 30"

## MIXERS

35 Dry Powder Mixers, new and rebuilt in stock, 200 lb. to 4000 lb.
30 Heavy Duty W. & P. Type Jacketed Double Arm Mixers; geared both ends; 20 gal. to 150 gal.
2 Conical Tumbling Batch Mixers; 20 cu. ft. and 80 cu. ft.
Stainless Steel Readco Double Arm 75 gal. Mixer
8 Glen Mixers, 340 gal., complete with 7½ H.P. motors and accessories
Large stock of Pony Mixers, Change Can Mixers; Lead and Paste Mixers in all wanted sizes.

**Packaging Equipment**
Large Stock of Automatic and Semi-Automatic Labelers, Fillers, Carton Sealers, Cappers, for every type of material and container.

## TABLET PRESSES

Large stock of Beach Russ, Leiman, Devine, Buffalo, Nash, Kinney wet and dry types in all capacities.

## PUMPS

Stokes Single Punch, E, F, T, R Presses; Colton, 3E, 5½, 9 AT; Rotary Presses; Stokes, Rotary D3, D4, DS3, DD, and Colton 9-18, 10-35; Kux 25, 52, 60 and 64

## MISCELLANEOUS

Stainless Steel Truck Type Oval Tank; 2100 Gal. 5' x 6' x 12'8" with catwalk and ladder to manhole
Steel Bubble Cap Fractionating Column 5' Dia. 17 sections
50 Gal. Nickel Pressure Kettle; 30" x 22"
4 8000 Gal. Steel Welded Tanks; ½" thick steel; 8' x 20'
Copper Calandria Type Vacuum Still; 10' x 16'
Ball & Jewell Stainless Steel Rotary Cutter with 30 H.P. motor
Standard Knapp 429-600 Automatic Gluer and Sealer—motorized
Allen 8" Jacketed Head Extruder and Strainer
8 Ro-Ball and Rotex Sifters from 20" x 48" to 40" x 120"

**Nobody pays more than FMC for Good Used Equipment**

# FIRST MACHINERY CORP.

157 HUDSON ST. WOrth 4-5900 NEW YORK 13, N. Y.

| | | | |
|---|---|---|---|
| Potassium abietate, dms | lb. | .08 | — |
| Acetate, dms | lb. | .31 | .36 |
| Bicarbonate, USP, gran., dms | lb. | .20 | .22 |
| powd., dms | lb. | .22 | .24 |
| Bichromate, bgs., c.l., works | lb. | .14 | — |
| l.c.l., same basis | lb. | .14¼ | .15 |
| Potassium bichromate in drums, ½c. higher. | | | |
| Bitartrate (see Cream of tartar). | | | |
| Borate, gran., bbls., c.l., works | ton. | 212.00 | — |
| ton lots, ex whse | ton. | 275.00 | — |
| less ton lots, ex whse | ton. | 280.00 | — |
| Bromate, bbls., 1,000 lbs. or more | lb. | .50 | .52 |
| 25-200-lb. lots | lb. | .55 | .57 |
| Bromide, USP cryst., gran., bbls., kgs | lb. | .34 | .37 |
| Carbonate, tech., calcined, bbls., c.l., works 100 lbs. | | 8.25 | — |
| l.c.l., same basis 100 lbs. | | 9.30 | — |
| hydrated, 83-85%, bbls., c.l., works 100 lbs. | | 6.75 | — |
| l.c.l., works 100 lbs. | | 7.50 | — |
| USP, gran., bbls., dms | lb | .16½ | .18 |
| powd., bbls., dms | lb. | .21 | .23 |
| Chromate, tech., bgs | lb. | .32 | .36 |
| Chlorate, cryst., dms., c.l., works | lb. | .089 | — |
| l.c.l., works | lb. | .0915 | .1015 |
| powd., dms., c.l., works | lb. | .094 | — |
| l.c.l., works | lb. | .0965 | .1065 |
| export, dms., 1 to 10 tons, ex whse | lb | 12 | — |
| NF gran dms | lb | 31 | 33 |
| Chloride, USP, cryst., dms | lb. | .26 | .27 |
| gran., dms | lb. | .20 | .22 |
| powd., dms | lb. | .29 | .32 |
| Citrate, USP, gran., dms | lb. | .37½ | .38½ |
| powder dms | lb | 40½ | 41½ |
| Cyanide dms works | lb | .52½ | .55 |
| Fluoride, dms, works | lb | .24 | — |
| Gluconate dms | lb. | 75 | .79 |
| Glycerophosphate 75% solution, cbys | lb. | 2.15 | 2.25 |
| Guaiacol sulphonate, NF, dms | lb. | 2.12 | 2.20 |
| Hydroxide, tech. (see Potash caustic). | | | |
| USP pellets, jars | lb | .33 | — |
| Hypochlorite, liquid, cbys., dms., works 100 lbs. | | 3.50 | — |
| Hypophosphite, NF, ton lots and less, fib dms | lb | 90 | 93 |
| Iodide, dms | lb. | 2.15 | 2.20 |
| Manure salt, 22% $K_2O$, bulk, mines | unit-ton. | .21 | — |
| Metabisulphite gran., bbls | lb | .21 | — |
| powd., bbls | lb | .25 | — |
| Muriate, dom., 50-60% $K_2O$, bulk, Carlsbad, N. M. | unit-ton. | .42 | — |
| Trona, Cal. | unit-ton. | .50½ | — |
| 50-51 $K_2O$, paper bgs., Carlsbad, N. M. | ton. | 25.50 | — |
| Nitrate (see Saltpeter) | | | |
| Oxalate, neutral, tech., fine gran., bbls., dms | lb. | .30 | .32 |
| purified, dms | lb | .42 | .44 |
| Perchlorate, dms., c.l., works | lb. | .13½ | — |
| l.c.l., works | lb. | .14 | .15 |
| Permanganate, tech., dms., works. | lb. | .22½ | .23½ |
| USP, dms., works | lb. | .24¾ | .25¼ |
| Persulphate, dms., c.l., works | lb. | .17 | — |
| Phosphate tetrabasic, bbls. wks. | lb | 13 | .13½ |
| Prussiate, red, kgs | lb. | 60 | .63 |
| yellow, bbls | lb | 21 | — |
| kegs | lb | 26 | — |
| Ricinoleate tech, bbls | lb | 11 | — |
| Silicate, glass, bgs., c.l., works, 100 lbs. | | 14.70 | — |
| l.c.l. 100 lbs. | | 15.20 | — |
| solution, 29° Be., ret. dms., c.l., works 100 lbs. | | 4.50 | 4.55 |
| l.c.l., 5 dms. or more, works 100 lbs. | | 5.25 | 6.30 |
| 30° Be., ret. dms., c.l., works 100 lbs. | | 4.70 | — |
| l.c.l., works 100 lbs. | | 5.20 | — |
| 32.5° Be., ret. dms., c.l., works, 100 lbs. | | 4.85 | — |
| l.c.l., works 100 lbs. | | 5.35 | — |
| 40° Be., ret. dms., c.l., works 100 lbs. | | 5.35 | — |
| l.c.l., works 100 lbs. | | 5.85 | — |
| 40.5° Be., ret. dms., c.l., works 100 lbs. | | 6.00 | 6.75 |
| l.c.l., 5 dms., or more, works 100 lbs. | | 6.75 | 7.50 |
| 1-4 dms., works 100 lbs. | | 7.25 | 7.90 |
| Silicofluoride, bbls., works | lb | .07 | .09 |
| Stannate, dms., frt. alld., E. | lb. | .830 | .886 |
| Sulphate, agricultural, 90-95% $K_2SO_4$, bulk, works, basis 90% | ton. | 36.25 | — |
| NF, cryst., dms | lb. | .31 | .33 |
| gran. dms | lb. | 18½ | — |
| powder, dms | lb. | .16 | .16½ |
| Sulphocyanide, cryst., NF (see Potassium thiocyanate) | | | |
| Thiocyanate, NF, cryst., dms | lb. | .75 | .81 |
| tech., works | lb | 45 | .50 |
| Titanate, ctns., c.l., works | lb | 12 | — |
| 5 tons, works | lb | 12¼ | — |
| 1 ton or less, works | lb. | 12½ | 12¾ |
| Potassium-magnesium sulphate, bulk, works, basis 40% $K_2SO_4$, 18% MgO | ton. | 16.00 | — |
| Potassium-sodium tartrate (see Rochelle salt) | | | |
| Potassium titanium fluoride, fib. dms., works | lb. | 45 | .55 |
| Potassium-titanium oxalate, bbls., kgs | lb | 65 | 70 |
| Potassium-zirconium fluoride, fib. dms., c.l., works | lb | 50 | — |
| l.c.l., works | lb | 52½ | .55 |
| Pregnenolone, bots | gm | 2.50 | — |
| Acetate, bots | gm. | 2.50 | — |
| Prickly ash bark, bls | lb | 23 | 25 |
| Berries, bgs | lb. | .60 | .70 |
| Prince's pine herb, bls. | lb. | .50 | .55 |
| Procaine hydrochloride, USP, dms., contract, 1,000 lbs. or more, works | lb | 3.75 | 4.50 |
| spot | lb. | 4.00 | 5.00 |
| Progesterone, USP, 100 gms., bots | gm. | 4.50 | — |
| Propane, commercial grade, tanks, group 3 | gal. | .03½ | — |
| Propionaldehyde, dms., c.l., works | lb | 28½ | — |
| l.c.l., works | lb | 29½ | — |
| tanks, works | lb | 25 | — |
| Propyl aldehyde (see Propionaldehyde) | | | |
| Gallate, dms., ton lots to 100 lb. lots, works | lb. | 3.90 | 4.40 |
| Parahydroxybenzoate, USP, dms | lb | 2.30 | 2.40 |
| Propylene dichloride, dms., c.l., l.c.l. | lb | .08½ | — |
| smaller containers, l.c.l. | lb. | .09½ | — |
| tanks | lb | .07 | — |
| Oxide, dms., c.l., frt. alld. E | lb. | .12½ | — |
| l.c.l., frt. alld. E | lb | .13½ | — |
| tanks, frt. alld. E | lb | .16½ | — |
| Propyleneglycol, NF, dms., c.l., frt. alld. E | lb. | .19¼ | — |
| l.c.l., same basis | lb. | .20¼ | — |
| tanks, same basis | lb. | .17½ | — |
| tech., dms., c.l., frt. alld. E | lb. | .18¼ | — |
| l.c.l., same basis | lb. | .19¼ | — |
| tanks, same basis | lb. | .16½ | — |
| Methylether, dms., c.l., frt. equald | lb. | .19¾ | — |
| l.c.l., same basis | lb. | .20¾ | — |
| tanks, same basis | lb. | .18¼ | — |
| Propylthiouracil, bots, 50 kilos or more | kilo | 55.00 | — |
| smaller lots | lb | 55.10 | .55.30 |
| Psyllium seed, black, bgs | lb. | .19 | .23 |
| blonde, bgs | lb. | .18 | .19 |
| husks, bgs | lb. | .65 | .66 |
| Pulsatilla herb, bls | lb. | .40 | .50 |
| Pumice, dom., grd. coarse, 0½, 1, 1½, 2, 3 bgs., ton lots. | lb. | .03⅜ | .04 |
| smaller lots | lb. | .03⅞ | .04¼ |
| Italian, silk-screen, coarse, bgs., ton lots | lb | .05½ | — |
| fine, bgs., ton lots | lb. | .04 | — |
| sun dried, coarse, bgs., ton lots | lb. | .02½ | — |
| fine, bgs., ton lots | lb. | .02½ | — |
| Pumice in bbls. is ½c. per lb. higher. | | | |
| Pumpkin seed, bgs | lb. | .18 | 36 |
| Purple lake (see Red) | | | |
| Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works | lb. | 11.00 | 11.50 |
| liquid (20 to 1), basis 2 grams pyrethrins, per 100cc., odorless base, dms., works | gal. | 11.00 | — |
| 30 to 1 base, 3 grams pyrethrins per 100 cc, odorless base, bbls., works | gal. | 16.30 | — |
| flowers, fine-grd. 0.9% pyrethrins, bbls., works | lb. | .47 | — |
| powder, 1.3% pyrethrins, bbls., works | lb. | .67½ | — |
| Pyrethrin, synthetic (see Allethrin) | | | |
| Pyridin, denaturing, dms., c.l., works, and frt. equald | gal. | 2.67 | — |
| l.c.l., same basis | gal. | 2.70 | — |
| ref., 2°, non-ret. dms., c.l., same basis | lb. | 1.04½ | — |
| l.c.l., same basis | lb. | 1.05 | — |
| Pyridoxine hydrochloride, 100-gram bots. | gram. | .55 | — |
| Pyrites, Spanish, c.i.f. Atl. ports | long-ton | 8.00 | — |
| Pyrocatechol (see Catechol). | | | |
| Pyrophyllite, standard, 200 mesh, bulk, c.l., mines | ton. | 11.00 | 11.50 |
| 230 mesh, bulk, c.l., mines | ton. | 12.00 | 12.50 |
| 325 mesh, bulk, c.l., mines | ton. | 15.00 | — |
| No. 3, 200 mesh, bulk, c.l., mines. | ton. | 9.50 | — |
| insecticide grade 200 mesh, bgs., c.l., mines | ton. | 12.00 | 12.50 |
| rubber grade 140 mesh, bgs., c.l., mines | ton. | 10.00 | 10.50 |

Standard and No. 3 pyrophyllite in paper bgs., $3 to $3.50 per ton extra.

| | | | |
|---|---|---|---|
| Pyroxylin, USP, bots | lb. | 9.54 | — |
| Scrap, opaque, amber, cs., works | lb. | .17 | — |
| black, cs., works | lb. | .14 | — |
| gray, cs., works | lb. | .13 | — |
| mixed, mottled, cs., works | lb. | .12 | — |
| white, china, ivory, cs., works, | lb. | .17 | — |
| dense, cs., works | lb. | .16 | — |
| translucent, pastels, cs., works, | lb. | .17 | — |
| transparent, colorless, cs., works, | lb. | .19 | — |
| colors, cs., works | lb. | .17 | — |
| shavings, opaque, amber, cs., works | lb. | .14 | — |
| mixed, colors, cs., works | lb. | .14 | — |
| white, cs., works | lb. | .17 | — |

## Q

| | | | |
|---|---|---|---|
| Quassia chips, bls | lb. | .08 | .09 |
| Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., | lb. | .14¾ | .15 |
| Quebracho extract, clarified, liq., 85% tannin, bbls., works, | lb. | .08 | .08½ |
| tanks, same basis | lb. | .07½ | — |
| solid, 64% tannin, bgs., c.l., duty extra | lb. | .09 | — |
| powd., 70% tannin bgs., c.l. | lb. | 15½ | — |
| ordinary, solid, 63% tannin, bgs., c.l., ex-dock, duty extra | lb. | .08 5/16 | — |

Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.

| | | | |
|---|---|---|---|
| Queen of the meadow root, bgs | lb. | .18 | .20 |
| Quercitron crystals, bbls., c.l. | lb | .33½ | — |
| Extract, liquid, bbls., c.l. | lb | 14½ | — |
| solid, bxs | lb | 28 | — |
| Quicksilver, flasks (76 lbs.) net | flask. | 110.00 | — |
| Quince seed, bgs | lb | 90 | 1.50 |
| Quinidine, NF V, cryst., ozs | oz | 1.90 | — |
| powd., precip., ozs | oz | 1.85 | — |
| Sulphate, USP, ozs | oz | 1.25 | — |
| Quinine, NF, ozs., 100 ozs | oz | 70 | — |
| Bisulphate, USP, ozs., 100 ozs | oz | 51 | — |
| Dihydrochloride, USP, ozs | oz. | .70 | — |
| Ethylcarbonate, NF, ozs., 100 ozs. | oz | 75 | — |
| Hydrobromide, NF, ozs., 50-oz ozs. | oz | 63 | — |
| Hydrochloride, USP, ozs., 100 ozs. | oz. | .63 | — |
| Phosphate, NF, ozs., 100 ozs | oz | 76 | — |
| Salicylate, NF, ozs., 100 ozs | oz | 66 | — |
| Sulphate, USP, ozs., 100 ozs | oz | 56½ | — |
| Quinine-urea hydrochloride, NF, ozs. | oz. | .68 | — |
| Quinolin, dms., c.l., frt. equald | lb | 50¾ | .51¼ |
| l.c.l., same basis | lb | 51¼ | 51¾ |
| tanks, same basis | lb | 50 | — |

The Betmann Archive


# SULPHUR — *the* "BURNING STONE" *of the Alchemists, plays many vital roles today*

Brimstone—the "Burning Stone" of the ancients which today we know as sulphur—has come far from the days when it was associated with the evil powers of darkness. Early employed in the manufacture of gunpowder, sulphur later found use as an ingredient in the manufacture of matches and in the vulcanization of rubber. And green in many memories is Grandma's favorite remedy of "sulphur 'n molasses."

But today sulphur and its derivatives are engaged in a far-flung span of activities. Few industrial processes do not include sulphur in at least one of its forms. For industrial use, Mathieson has available Commercial Flour Sulphur, Refined Flour Sulphur, Refined Roll Brimstone, Broken Rock Brimstone, Flowers of Sulphur and Rubbermakers Sulphurs. Mathieson offers the following grades of sulphur for agricultural use: Soil Sulphur, Dusting Sulphurs and Wettable Sulphurs. Mathieson Chemical Corporation, Mathieson Building, Baltimore 3, Maryland.

Mathieson CHEMICALS

870E

SERVING INDUSTRY, AGRICULTURE AND PUBLIC HEALTH

**R Salt, Paste—Skunk Cabbage Root**

## R

R salt, paste, dry basis . dms., frt. alld lb. .83 - —
Raspberries, dried, bbls lb 1.60 1.70
Red, alizarin conc., bbls., dlvd. N. of Tenn and N. C. E of Miss. including St Paul, Minneapolis, Davenport, Rock Island St. Louis lb. 2.60 - —

Prices ½c per lb higher dlvd Ala Fla., Ga., La (Shreveport, 1¼c.), Miss. N C., S C., Tenn., Tex. (Dallas, Ft Worth, 1¼c.), El Paso 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha St. Joseph 1.6c per lb. higher, dlvd Pacific coast prices equaled with Chicago dlvd Denver Pueblo Salt Lake City, Wichita

Cadmium, CP, dark shade, bbls., frt. alld E of Rockies lb 3.80 - —
light shade, bbls. same basis. lb. 3.65 - —
medium shade, bbls. same basis lb 3.75 - —
medium light shade, bbls., same basis lb. 3.70 - —
orange shade, bbls., same basis lb. 3.30 - —
lithopone, deep shade, bbls., same basis ..... lb. 1.75 - 1.80
light shade, bbls., same basis. lb. 1.65 - —
maroon shade, bbls. same basis lb. 1.90 - 2.00
medium shade, bbls., same basis lb. 1.75 - —
medium-light shade, bbls., same basis lb. 1.70 - —
Red, cadmium lithopone, orange-red shade, bbls., same basis. lb. 1.60 - —

Red cadmium lithopone all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb higher ex whse Los Angeles and San Francisco

Carmine, No. 40 (see Carmine).
Crocus martis (see Red, maroon iron oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works ..... lb. 1.40 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E St. Louis, N. Y. lb. .12½- —
Iron oxide, synth., bgs ..... lb. .11¾- .12
75%-85% copperas oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O.; Easton, Pa.; E St. Louis lb. .05¼ .09¼
special, high color, all shades, bgs. lb. .60 - —
Lake C, toner alizarin, bbls., works lb. 1.05 - —
Lithol toner, bbls., works ..... lb. .65 - —
Lithol-rubin toner, alizarin lake, bbls., works lb. 1.40 - —
Maroon, alizarin lake 25%, kgs., works lb. .40 .43
toner, bbls., works lb 1.35 1.50
cadmium, deep, bbls., works lb. 1.20 - —
regular, bbls. works lb 1.10 — —
iron oxide, bgs., l.c.l., works lb .04 — —
MNPT toner, kgs., works lb. 3.25 — —

Maroons in smaller pkgs., 5c. per lb higher

Mercury oxide, tech., bbls., 10,000 lbs., works lb. 2.20 - 2.45
smaller lots, works ..... lb. 2.22 - 2.47
Red metallic, bbls., works ..... lb. .02½- .02¾
Oxide (see Red iron oxide).
Persian gulf, bgs., works ... lb. 08¾ .07
Para toner, bbls. ..... lb. .85 - .90
Phloxin toner (see Red, eosin toners.
Phosphotungstic, rhodamine Y, kgs., works lb. 4.45 - —
Pink lake, alizarin, bbls., works lb. .20 - .25
Purple lake, kegs ..... lb. 1.35 - —
Rose lake, alizarin, bbls. works lb. .25 .28
Spanish oxide, bbls., c.l., ex dock. lb. .05¾- —
l.c.l., ex dock ..... lb. .06 - —
ex whse., New York lb. .06½- —
Toluidin toner (MNPT), kgs., works. lb. 1.35 - —
Turkey, bbls., works ..... lb. .14½- —
Tuscan, bbls., frt. equald ..... lb. .24½- .25
Venetian 15% bgs., works ... lb. .0350- .0375
20% bgs., works ..... lb. .04 - —
25% bgs., works ..... lb. .0450- —
30% bgs., works ..... lb. .0475- —
35% bgs., works ..... lb. .05 - —
40% bgs., works ..... lb. .0525- —
Red, vermilion, Amer., bbls ..... lb. .32 - —
Quicksilver, cins lb 4.27 — —
Red KB base (see chloro(4)-2-toluidine).
Red Precipitate, NF, powd., fib. dms lb. 2.30 - 2.62
Red saunders wood powd. bbls lb .50 — —
Rennin, NF, powder ..... lb. 6.25 - —
Resorcinol, resin grade, dms., c.l., works lb. .81 - —
l.c.l., works ..... lb. .82 - —
tech., dms., c.l., works ..... lb. .84 - —
l.c.l., works ..... lb. .85 - —
USP, cryst., dms., works ..... lb. 2.75 - —
powd., dms., works ..... lb. 2.95 - —
Monoacetate, NF, dms ..... lb. 3.25 - 3.45
Rhatany root, bgs ..... lb 15 16
Rhodinol, 5-lb. cns ..... lb. 42.00 -45.00
Rhubarb root, China, whole, cs. lb. .65 - .75
powd., bbls ..... lb. .75 - .83
India, whole, bgs. ..... lb. .30 - .35
powdered, bbls. ..... lb. .35 - .40
Riboflavin, USP, bots., dlvd. ... kilo. 125.00 — —
Readily soluble, bots., dlvd. .. kilo. 125.00 - —
Rice bran concentrate, dms. Cedartown, Ga lb. .79 - —
Rochelle salt, USP, gran., powd., dms., 5,000 lbs. lb. .31 - —
smaller lots ..... lb. .31½- .36½
Rose flowers, pale, bls ..... lb. .40 - .45
Rosemary flowers, bls ..... lb. 1.55 1.65
Leaves, French, bls ..... lb. .12 .12½
Portuguese, bls. ..... lb. .06¾- .07
Spanish, bls ..... lb. .07¼- .07½
Rosin gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works 100 lbs. 4.00 - —
FF, dms., c.l., works .... 100 lbs. 6.25 - —
G, H, I, dms., c.l., works 100 lbs. 7.50 - —
K, dms., c.l., works ..... 100 lbs. 7.60 - —
M, dms., c.l., works ..... 100 lbs. 7.60 - —
N, dms., c.l., works ..... 100 lbs. 7.60 - —
WG, dms., c.l., works .... 100 lbs. 7.75 - —
WW, dms., c.l., works .... 100 lbs. 7.95 - —
X, dms., c.l., works .... 100 lbs. 8.05 - —
Rotenone, CP, bbls., works ..... lb. 20.00 - —
tech., bbls., works ..... lb. 16.50 - —
Rottenstone, bgs. c.l. mines .. ton. 36.00 — —
l.c.l., mines .... ton. 43.00 — —
Rue herb, bls ..... lb. .35 .40
Rutin, 10 kilos, fib. dms ..... gram. .01¾- .02
smaller lots, fib. dms ..... gram. .02¼- .03½
Ryania, 100% powd., bgs., works lb. .20 — —

## S

Sabadilla seed, powd., bbls ..... lb. .70 - —
activated grinds with lime, bbls. lb. .45 - —
Saccharin, USP, gran., soluble, dms., 1,000-lb. lots lb. 1.50 - —
smaller lots lb 1.60 1.70
powd. soluble insoluble, dms., 1,000-lb. lots lb 1.55 — —
smaller lots ..... lb. 1.65 - 1.85
Safflower, Egyptian, bls ..... lb. .65 - .70
Saffron, Mexican, bls ..... lb. 1.10 - 1.20
Spanish, USP, tins ..... lb. 22.00 -25.00
Safrol, dms. ..... lb. .95 - 1.10
Sage, Cretan, bls ..... lb. .16 - .17
Cyprus, bls. ..... lb. .10 - .11
Dalmatian, bls. ..... lb. 1.14 - 1.18
Greek, fancy, bls ..... lb. No stocks.
Spanish, bls. ..... lb. .12 - .12½
Syrian, bls. ..... lb. .15 - .16
Sago flour, bgs ..... lb. .07¾- .08
Sal soda (see Soda sal).
Saligenin, cns ..... lb 14.00 -25.00
Salol, NF, gran., bbls., kgs ..... lb. 1.00 - 1.05
fib. dms. ..... lb. 1.02 - 1.06
powdered salol 10c higher
Salt, rock, burlap bgs., c.l., works. 100 lbs. 1.09 - —
l.c.l. ..... 100 lbs. 1.30 - —
paper bgs., c.l. ..... 100 lbs. .94 - —
l.c.l. ..... 100 lbs. 1.15 - —
Table, vacuum, common, fine, bgs., c.l., works 100 lbs. 1.09 - —
l.c.l., works ..... 100 lbs. 1.20 - —
Saltcake, dom., bulk, works, 100% $Na_2SO_4$ basis ton. 17.00 - —
Saltpeter, cryst. bbls. 10 tons. 100 lbs. 13.90 — —
smaller lots 100 lbs. 14.15 -14.40
gran., bbls., 20 tons ..... 100 lbs. 9.25 - —
smaller lots ..... 100 lbs. 10.50 -11.00
powd., bbls., 20 tons ..... 100 lbs. 10.25 — —
smaller lots ... 100 lbs. 11.50 -12.00
NF gran. dms lb. 15¼ .17¾
Saltpeter in bags, 25c. per 100 lbs. less than in barrels; in kegs, $1 more.
Sandalwood chips, East Indies, bgs., lb. .65 .66
powd., dms. lb. .75 .76
Sanguinarine nitrate, bots oz. 4.75 5.50
Santonin, NF cryst., powd. cns. kilo. No stocks.
Saponin, No. 1 cns lb. 2.45 — —
Sarsaparilla root, dom. bls ..... lb. .30 .40
Honduras bls ..... lb 40 45
Mexican, bls. ..... lb. .28 - .30
Sassafras bark, ord. bls ..... lb .39 .40
select, bls. ..... lb. .55 - .60
Savory, French, bls ..... lb. .11 - .11½
Spanish, bls. ..... lb. .10 - .10½
Saw palmetto berries, bgs. ..... lb. .30 - .35
Scammony resin, lump cns . lb 1.95 2.20
powd., cns lb. 2.05 2.30
Root, bgs lb 11 .14
Schaeffer's salt, bgs., frt. alld .. lb. .73 - —
Scopolamine hydrobromide, bots oz. 15.00 -16.00
Hydrochloride, bots oz 84.00 — —
Seidlitz mixture, bbls., 5,000 lbs lb. .26¾- —
smaller lots ..... lb. .27¼- —
dms., 100 lbs. or less ..... lb. .28¼- .32½
Selenium, powd., dms., dlvd ... lb. 3.25 - —
Senega root, bls ..... lb. 2.50 - 2.60
Senna leaf, Alex., half-leaf, bls lb. .18 - .20
sifting, bgs. ..... lb. .18 - .20
Tinnevelly, No. 1, bls ..... lb. .24 - .25
No. 2, bls ..... lb. .20 - .21
No. 3, bls ..... lb. .17 - .18
powdered, bls., bxs ..... lb. .20 - .24
Pods, bls. ..... lb. .30 - .35
Serpentaria root, bls ..... lb. 3.50 Nom.
Sesame seed, Chinese, white, natural, bgs lb. .15 - .15½
hulled, bgs. ..... lb. .17½- .18
Nicaragua, hulled, bgs ..... lb. .23 - .27
natural, bgs ..... lb. .18½- .19
Salvadorean, bgs ..... lb. .13 Nom.
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .51½- —
bbls., 1,500-lb. lots ..... lb. .52 - —
kgs., 1,500-lb. lots ..... lb. .54 - —
refined, bgs., 1,500-lb. lots .. lb. .61½- —
bbls., 1,500-lb lots ..... lb. .62 - —
kgs., 1,500 lb. lots ..... lb. .64 - —

Bonedry shellac prices for less than 1,500 lbs., 1c. per lb. higher for all packages.

Lemon, No. 1, bgs ..... lb. .50 - .51
No. 2, bgs ..... lb. .48 - .49
Superfine, bgs., 10 bgs ..... lb. .46 - .47
TN, bgs., 10 bgs ..... lb. .44 - .45
Shellac in 1 to 9 bgs. 1c more
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works ton. 20.00 -30.00
l.c.l., works ..... ton. 25.00 -40.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton. 20.00 - —
l.c.l., works ..... ton. 25.00 - —
140 mesh, bgs., c.l., works ton 12.00 - —
l.c.l., works ..... ton 17.00 - —
Tetrachloride, tech., dms., c.l., works lb. .14½- —
l.c.l., works ..... lb. .18½- .20½
Silver bullion, ingots, cs ..... oz. .80 - —
Cyanide, fib. dms., 2,500-oz. lots oz. .71½- —
1,000-oz. lots ..... oz. .71⅞- —
500-oz. lots ..... oz. .72½- —
100-oz. lots ..... oz. .72⅞- —
Nitrate, CP, cryst., bots., 2,500-oz. lots oz. .50½- —
1,000-oz. lots ..... oz. .51⅞- —
500-oz. lots ..... oz. .52⅜- —
250-oz. lots ..... oz. .52⅞- —
USP granular silver nitrate 4c. per oz higher
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz .95 - —
strong, NF, bots., dms., 1,000-oz. lots oz. .90 - —
Simaruba bark, bls lb. .85 Nom.
Skullcap herb, Eastern, bls. .... lb. .50 - .55
Western, bls ..... lb. .30 .35
Skunk cabbage root, bls ..... lb. .30 - .35


HEYDEN

SALICYLIC ACID

U. S. P. AND TECHNICAL

An extremely useful and versatile product, serving in many capacities throughout the pharmaceutical and industrial fields. Salicylic acid is an active disinfectant, and inhibits bacterial growth in many processes. It is widely used in lotions, ointments and powders in treating skin diseases. The technical grade finds application in dyes, resins and rubber.

Of unusually high purity and uniformity, Heyden Salicylic Acid (crystals or powder) is produced in both U.S.P. and Technical grades—shipped in fiber drums from 25 to 225 lbs. net.

FINE HEYDEN CHEMICALS

OTHER HEYDEN SALICYLATES AVAILABLE

SODIUM SALICYLATE U.S.P.
Large Crystals, Flo Crystals or Powder

METHYL SALICYLATE U.S.P.
(Oil of Wintergreen, synthetic)

ACETYLSALICYLIC ACID U.S.P.
Crystals or Powder
(also Starch Granulations)

PHENYL SALICYLATE N.F.
(Salol)
Granular or Powder

AMMONIUM SALICYLATE N.F.
Crystals

CALCIUM SALICYLATE
Powder

LITHIUM SALICYLATE N.F.
Powder

MAGNESIUM SALICYLATE
Powder

STRONTIUM SALICYLATE N.F.
Powder

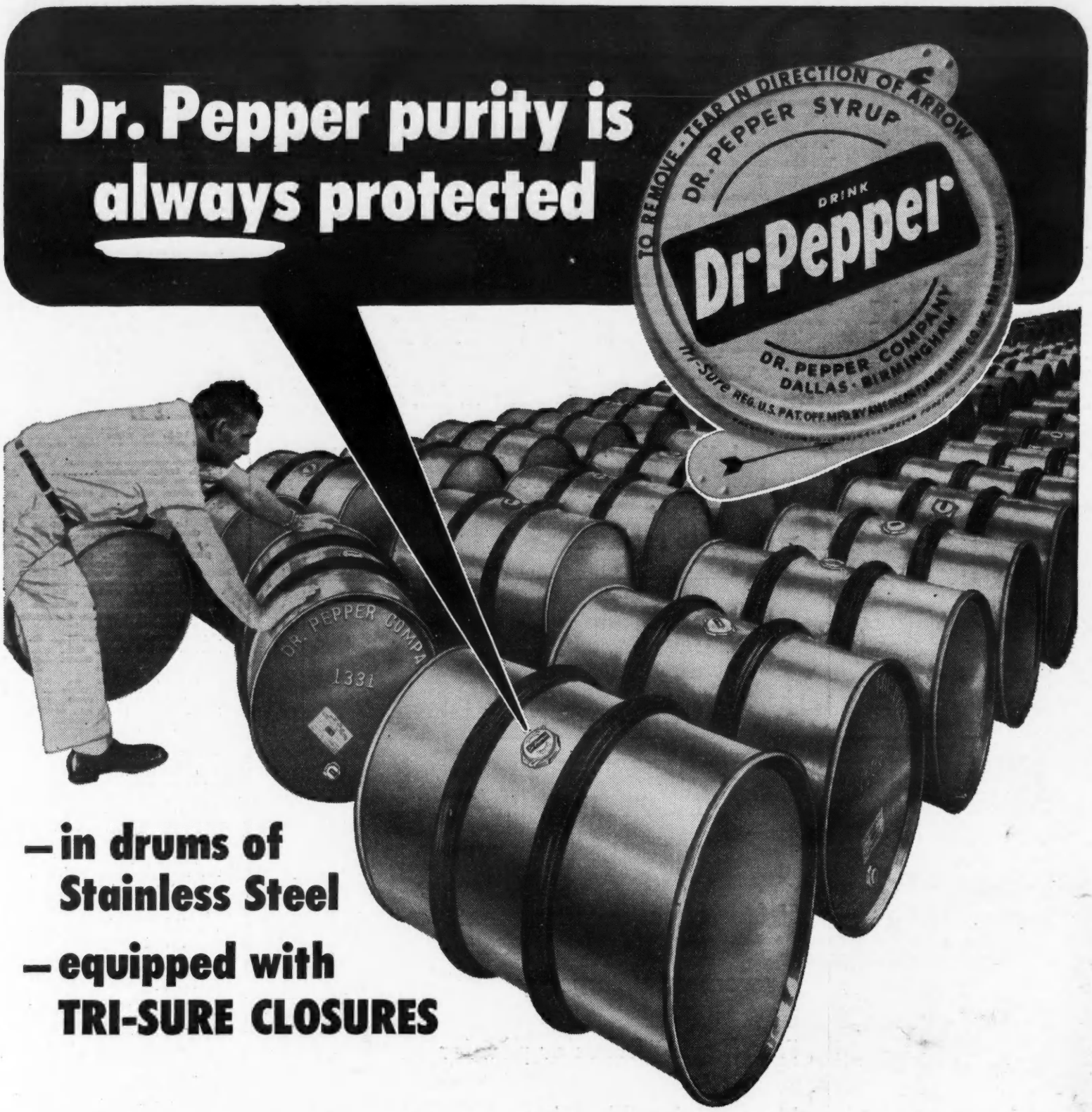
*Samples and technical literature mailed promptly on request.*

HEYDEN
CHEMICAL CORPORATION
393 SEVENTH AVENUE, NEW YORK 1, N. Y.
CHICAGO • PHILADELPHIA • SAN FRANCISCO
DETROIT • PROVIDENCE

Benzaldehyde • Benzoates • Benzyl Chloride
Bromides • Chlorinated Aromatics • Creosotes
Formaldehyde • Formic Acid • Glycerophosphates
Guaiacols • Hexamethylenetetramine
Medicinal Colloids • Methylene Disalicylic Acid
Paraformaldehyde • Parahydroxybenzoates
Penicillin • Pentaerythritols
Propyl Gallate • Resorcinol • Salicylates
Salicylic Acid • Streptomycin

SERVING INDUSTRY THROUGH FINER CHEMICALS

# Dr. Pepper purity is always protected




## —in drums of Stainless Steel

## —equipped with TRI-SURE CLOSURES

Dr. Pepper syrup is shipped to 440 bottlers in all sections of the United States. And to *protect* the purity of every gallon, the Dr. Pepper Company uses only *stainless steel* drums—equipped with *Tri-Sure Stainless Steel Closures**.

Just as stainless steel provides drums that are easier to clean, sterilize and handle, Tri-Sure Closures *keep* the contents secure from leakage, tampering and contamination.

Like other shippers to whom *product purity* is paramount, the Dr. Pepper Company standardizes on Tri-Sure Closures because the *flange* is integral with the drumstock . . . the *plug* screws securely into the flange . . . and the leak-proof *seal*, made of 195-lb. plate, prevents undetected tampering.

Give this protection to *your* product—eliminate risks in *your* shipments — by specifying "Tri-Sure Closures" when you order drums.

Tri-Sure
Reg. U. S. Pat. Off.
CLOSURES

*The "Tri-Sure" Trademark is a mark of reliability backed by 28 years serving industry. It tells your customers that genuine Tri-Sure Flanges (inserted with genuine Tri-Sure dies), Plugs and Seals have been used.

**AMERICAN FLANGE & MANUFACTURING CO. INC., 30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.**

**TRI-SURE PRODUCTS LIMITED, ST. CATHARINES, ONTARIO, CANADA**

## Slate Flour—Sodium Sesquisilicate

Slate flour, bgs., c.l., works....ton 11.00 -12.00
l.c.l., ex whse....ton 20.00 -60.00
Sloe berries, bgs....lb. .24 - .28
Smalt, black, ctns....lb. .11½- —
Blue, ctns....lb. .15½- —
Snakeroot, Canada, bls....lb. .90 - 1.00
Soapbark, bls....lb. .24 - .27
crushed, bls., bbls....lb. .29 - .35
powd., bbls....lb. .30 - .35
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.60 - —
l.c.l., stock points 100 lbs. 2.85 - 4.62
bbls., c.l., works 100 lbs. 2.15 - —
l.c.l., stock points 100 lbs. 3.35 - 4.12
bulk, c.l., works 100 lbs. 1.30 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.50 - —
l.c.l., stock points 100 lbs. 2.75 - 4.52
bbls., c.l., works 100 lbs. 2.05 - —
l.c.l., stock points 100 lbs. 3.25 - 5.02
bulk, c.l., works 100 lbs. 1.20 - —
Caustic, flake, powd., 76%, dms., c.l., works 100 lbs. 3.75 - —
l.c.l., stock points 100 lbs. 4.95 - 6.77
liquid, 50%, sellers' tanks, works, dry basis 100 lbs. 2.55 - —
rayon-type, tanks, works, dry basis 100 lbs. 2.65 - —
70%, sellers' tanks, works, dry basis 100 lbs. 2.65 - —
rayon-type, tanks, works, dry basis 100 lbs. 2.75 - —
solid, 76%, dms., c.l., works 100 lbs. 3.35 - —
l.c.l., stock points 100 lbs. 4.55 - 5.05
Sal, bgs., c.l., works 100 lbs. 1.40 - —
l.c.l., works 100 lbs. 1.70 - —
Soda-lime, USP dms....lb. .23 .25

Sodium acetate, anhyd., dms., works, lb. .10¼- .12
NF, powder, bbls., works....lb. .08½- .09¼
Alginate, refined, water soluble, bbls., works lb. .79 - —
semi-refined bbls. works lb. .46 - —
NF white powd., dms., works, ton lots lb. 1.25 - —
smaller lots....lb. 1.30 - 1.65
Aluminate, 20,000 lbs. or more, bgs. 100 lbs. 8.50 - —
smaller lots....100 lbs. 9.50 - —
Antimoniate, bbls., c.l., dlvd. E. lb. .27½- —
l.c.l., dlvd....lb. .28½- —
Arsenate, dealers, dms., c.l., works, lb. .12 —
Arsenite, dealers, dms., works... lb. No stocks.
solution dms., works gal. .60 1.00
Benzoate, tech., bbls., dms., 100 lbs. or more lb. .35 - .39
USP, bbls., dms., 100 lbs. or more lb. .42 - .46
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.50 - —
l.c.l., works....100 lbs. 3.15 - —
powd., bgs., c.l., works, 100 lbs. 2.10 - —
l.c.l., works....100 lbs. 2.75 - —
Bichromate, bgs., c.l., works....lb. .10½- —
l.c.l., same basis....lb. .10¾- .11½
Sodium bichromate, in drums, ½c higher.
Bifluoride, bbls., c.l., works, frt. equald lb. .13½- —
l.c.l., same basis....lb. .14½- —
Bisulphate, bulk, c.l., works, 100 lbs. 2.00 - —
dms., c.l., works....100 lbs. 2.65 - —
l.c.l., works....100 lbs. 3.15 - —

Sodium bisulphite, powd., bgs., c.l., works 100 lbs. 3.90 - —
l.c.l., works....100 lbs. 4.15 - —
solut. 38° bbls., c.l., works, 100 lbs. 1.10 - —
c.l. works....100 lbs. 1.50 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .34 - .35
Cacodylate, NF, jars, dms....lb. 7.00 - 8.00
Carbonate, anhydrous (see Soda ash).
crystalline, monohydrated, bgs., c.l., works 100 lbs. 2.65 - —
l.c.l., works....100 lbs. 3.05 - —
Chlorate, cryst., dms., c.l., works, lb. .06 - —
l.c.l., works....lb. .06¼- —
powd., kgs., works....lb. .09½- —
Chloride, tech. (see Salt).
USP, dms....lb. .21 - —
Chlorite, tech., dms., works lb. .75 - —
Chloroacetate, tech., dms., c.l., works lb. .20 —
c.l., dms., works lb. .21 .22
Chromate, dms., c.l., works....lb. .12¼- —
l.c.l., same basis....lb. .12½- .13¼
Citrate, anhyd., dms....lb. .60 - .65
USP VIII, anhyd., dms....lb. .23 - .28
USP XIII, gran., dms....lb. .28 .32
Sodium citrate, USP XIII, powd., prices ½c higher
Cyanate, dms., 1,000 lbs., works, lb. 1.10 - —
smaller lots, works....lb. 1.25 - —
Cyanide, 96-98%, dms....lb. .17 - .19
Diacetate, 33-35% acidity, bbls., works lb. .12 - .13½
anhydrous, dms., works lb. .14 .15½
Fluoride, white, 90%, bbls., c.l., works, lb. .10¾- —
l.c.l., works....lb. .11 - .11¼
95%, bbls., c.l., works....lb. .10¾- —
l.c.l., works....lb. .11 —

Sodium fluoracetate, monobasic, 8-oz. tins, 50 to a case, works....lb. 12.00 - —
2 to 25 tins to case, works lb. 12.00 -16.50
1 oz. tins, 16 to 64 to case, works lb. 16.50 -21.00
tribasic, ton lots lb. 11.00 - —
Formate, bgs., c.l., dlvd....100 lbs. 7.10 - —
l.c.l....100 lbs. 8.15 - —
Gluconate, dms....lb. .83 - .85
Glutamate, monobasic, dms., c.l., dlvd....lb. 1.60 - —
smaller quantities, dlvd....lb. 1.63 - —
Glycerophosphate, NF, cryst., bbls., lb. 1.80 - 1.95
powder, bbls....lb. 1.85 - 2.00
solution, 75%, cbys....lb. 1.06 - 1.21
Hydride, dms., works....lb. 2.00 3.00
Hydrosulphide (see Sodium sulphydrate).
Hydrosulphite, dms., c.l., frt. alld., lb. .23½- —
l.c.l., frt. alld....lb. .24 - —
Hydroxide, tech. (see Soda, caustic).
USP pellets, dms....lb. .23 —
Hypophosphite, NF, ton lots or less, dms....lb. .85 - .88
Hyposulphite, photographic, bgs., 5,000-lb. lots, Metro. area 100 lbs. 4.10 - —
tech., cryst., bgs., c.l., works, frt. equald 100 lbs. 3.75 - —
l.c.l., same basis 100 lbs. 4.10 - —
pea, bgs. 100 lbs 3.90 4.85
gran., bgs., c.l., works 100 lbs. 4.00 —
Sodium, hyposulphite, crystals in bbls., 50c. higher.
U. S. = Sodium thiosulphate).
Iodide, USP, bots., dms....lb. 2.69 - —
Lactate, edible, 50%, dms., cbys., works lb. .19 - —
60%, dms., cbys., works lb. .24 - —
tech., 50%, dms., cbys., works, lb. .13 - .14
Metaborate, octa-hydrate, gran., bgs., c.l., works....ton 78.50 - —
l.c.l., ex whse....ton 124.50 -129.50
tetrahydrate, c.l., bbls., works ton 199.50 - —
Sodium metaborate in obls. $2 per ton higher.
Metal, tanks, works....lb. .16 - —
bricks, dms., works lb. .17 - .18
Metanilate, bbls., frt. alld....lb. .57 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 4.60 - —
l.c.l., works....100 lbs. 6.10 - —
dms., c.l....100 lbs. 4.85 - —
l.c.l....100 lbs. 6.35 - —
pentahydrate, bgs., c.l., works, frt. equald 100 lbs. 3.75 - —
l.c.l., bgs., works 100 lbs. 4.15 - 4.65
dms., c.l., works 100 lbs. 4.15 - —
bbls., l.c.l., works 100 lbs. 4.55 - —
Molybdate, anhyd., bbls., works lb. .60 - —
Monohydrate (see Sodium carbonate, monohydrated)
Naphthionate, bbls....lb. .66 - —
Nitrate, crude, dom., bgs., c.l., works, ton 48.50 - —
bulk c.l. works lb 45.00 - —
imp. 100-lb. bgs. c.l. All Gulf Pac whse ton 51.50 - —
bulk, c.l. same basis ton 48.00 - —
Nitrite, 99½% bbls., c.l., works, frt. equald lb. .07¼- —
l.c.l., same basis lb. .08¾- —
USP, dms lb .21 —
Orthosilicate, anhyd., dms., c.l., works 100 lbs. 6.00 - —
l.c.l., works....100 lbs. 7.60 - —
hydrated flake bbls. c.l. works 100 lbs. 4.25 —
l.c.l. works 100 lbs 5.50 5.75
Oxalate, neut., bgs., works lb. .09½- —
Para-aminobenzoate, dms., 1,000 lbs. or more lb. 3.50 - —
smaller lots....lb. 3.65 - —
Para-aminosalicylate, dms., 1,000-lb. lots lb. 5.75 - 7.50
smaller lots lb. 5.80 - 7.80
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .21½- —
l.c.l., same basis lb .22½ .24½
pellets, bgs. c.l. same basis lb. .21 —
l.c.l. same basis lb. .22 .24
Pentachlorophenate, powd., bgs., c.l., same basis lb. .20 - —
l.c.l. same basis lb. .21 .23
Truckloads of pentachlorophenate of 20,000 lbs. min. available at ¼c per lb over carlot prices.
Perborate, USP, tech., bbls., c.l., works lb. .19¾- —
l.c.l., works....lb. .20¾- .21¼
Peroxide, dms., c.l., dlvd. E. of Miss lb. .19 - —
l.c.l., same basis lb. .19½- .20
Phenolsulphonate, USP IX, gran., dms lb. .38 .39
powd., dms....lb. .41 - .43
Phosphate, dibasic anhydr bgs. c.l., works 100 lbs. 7.15 - —
l.c.l., works....100 lbs. 7.55 - —
cryst., bgs., c.l., works 100 lbs. 4.00 - —
100 lbs 4.00 —
l.c.l., works 100 lbs 4.40 - —
USP, dried, powd. bgs., dms. works lb. .19 .20½
monobasic, anhyd., bgs., c.l., works 100 lbs. 7.80 - —
l.c.l., works 100 lbs. 8.20 - —
tribasic, cryst., bgs., c.l., works, frt. equald 100 lbs. 3.90 - 4.15
l.c.l., same basis 100 lbs. 4.30 - 4.55
Sodium phosphates in obls. 40c higher than bgs
USP (see Sodium phosphate dibasic)
Prussiate, yellow, bgs....lb. .12½- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lbs. 10.50 - —
ferric, dms., 1,500 lbs., works, lb. .30 - —
smaller lots, works lb .31 - —
Pyrophosphate, tetrabasic, anhy., bgs., c.l., works, frt. equald 100 lbs. 7.30 - —
l.c.l., frt. equald 100 lbs. 7.70 - —
Salicylate, USP, dms lb .61 - .63
Sesquicarbonate, bgs., c.l., works, 100 lbs. 2.10 - —
l.c.l., dlvd. zone 1....100 lbs. 3.85 - 4.25
zone 2....100 lbs. 4.11 - 4.51
zone 3....100 lbs. 4.40 - 4.70
zone 4....100 lbs. 5.11 - 5.50
Sales zones are: (1) All States E. of Miss. R. and N of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones: Davenport, Ia. and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn., Mo (except St Louis), Neb., E. of 98° N C. S. C., Tenn and Tex N. of 31° and E of 100° (except Wichita Falls); also Ala., La and Miss No of 31°; (3) Ark. W of 96° Kan. Neb. W of 98°; N. D., Okla., S. D., Tex. W of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho Mont. Nev., N. M., Utah, Wyo. and El Paso, Tex
bbls. c.l. works 400 lbs 3.45 —
Sesquisilicate, anhy. dms., c.l., works 100 lbs. 5.50 - —
l.c.l., works....100 lbs. 7.00 - —


# The "solution test" proves another advantage of Wyandotte Kreelon

***Lighter color***

Guaranteed detergency

Free-flowing flakes or powder

No objectionable odor

Maximum detergency

**Because appearance and performance are important factors in your detergent applications, it will pay you to make the "solution test."**

**Take a sample of *Wyandotte Kreelon** and one or a number of other detergents. Simply dissolve in a given quantity of water. You'll find that most detergents will turn hazy or "muddy." The Kreelon solution, on the other hand, is clear—practically colorless.**

Kreelon also dissolves faster and has greater solubility than most other detergents. And it is uniform in *performance* as well as *appearance*. It provides excellent sudsing and soil removal properties, maximum whiteness retention. Kreelon contains a minimum of 40% active agent.

For further information on Wyandotte Kreelon, its properties and applications, just fill in the coupon below and mail it today.

*Reg. U. S. Pat. Off.

**To: WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Michigan**
Please send your literature on Wyandotte Kreelon to:

Name_____
Firm_____
Address_____
City_____ State_____

SODA ASH • CAUSTIC SODA
BICARBONATE OF SODA
CALCIUM CARBONATE • CALCIUM CHLORIDE
CHLORINE • HYDROGEN • DRY ICE
SYNTHETIC DETERGENTS • GLYCOLS
CARBOSE (Sodium CMC) • ETHYLENE DICHLORIDE
PROPYLENE DICHLORIDE
AROMATIC SULFONIC ACID DERIVATIVES
OTHER ORGANIC AND INORGANIC CHEMICALS

**Wyandotte Chemicals Corporation**
Wyandotte, Michigan • *Offices in Principal Cities*

Wyandotte
REG. U. S. PAT. OFF.

Sodium silicate, liquid, 40°, turbid., dms., c.l., works..100 lbs. 1.20 - —
l.c.l., works.....100 lbs. 1.55 - 1.95
tanks, works.....ton.19.00 - —
52°, turbid., dms., c.l., works, 100 lbs. 2.00 - —
l.c.l., works.....100 lbs. 2.40 - —
tanks, works.....ton.37.00 - —
solid, bgs., works.....ton.55.00 - —
Silicofluoride, bbs., c.l., works lb. .04½- —
l.c.l., works lb. .049 - —
Stannate, dms., works, frt. alld. E. lb. .787 - .837
Stearate USP anhyd., bbls., work lb. .51 - .56
Sulphanilate, bbls., works lb. .22 - —
Sulphate NF VII dried gran., dms lb. .14½ - .16½
tech. anhyd. bgs. c.l. works, 100 lbs 2.00 - —
l.c.l. works 100 lbs 2.35 2.60
cryst (see Glauber's salt)
USP, cryst., bbls lb .17 .19
gran., bbls lb .17 - .17½
Sulphide, flake, bbls., c.l., works, frt. equald 100 lbs. 4.50 - 5.00
l.c.l., same basis....100 lbs. 5.00 - 5.75
fused, bbls. c.l. works frt equald. 100 lbs. 4.00 - 4.50
l.c.l., same basis....100 lbs. 4.50 - 5.00
Sulphite, anhyd., by-product, powd. bgs., c.l. frt equald 100 lbs 2.50 2.75
l.c.l. same basis 100 lbs. 3.25 3.75
regular powd., bbls., c.l. works 100 lbs. 6.75 - —
l.c.l., same basis 100 lbs. 7.25 - —
crystals, bgs., c.l., works 100 lbs. 4.10 - —
l.c.l., works.....100 lbs. 4.50 - 4.75
bbls. c.l., works.....100 lbs. 4.50 - —
l.c.l., works .....100 lbs. 4.90 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate bbls..... lb. .51 - .61
Sulphydrate, flake, 70-72%, dms., works, c.l. lb. .05¾- —
l.c.l., works lb .06¼- —
liquid, 45% basis 100%, tanks works ton.90.00 - —
Tetrasulphide, liquid, 40%, dms., c.l., works lb. .03 - —
l.c.l., works lb. .03¼- —
Thiocyanate, CP, dms lb. .55 .65
tech., dms. works lb .20 —
Thiosulphate tech. (see Sodium hyposulphite), USP cryst. bbls lb .10 .12
Titanate, ctns c.l., works..... lb. .10 - —
5 tons, works lb .10¼- —
1 ton or less, works.... lb. .10½- .11
Trichloroacetate, dms. lb. .46 - .55
Tripolyphosphate, bgs. c.l. works, frt. equald .....100 lbs. 7.65 - —
l.c.l., same basis.....100 lbs. 8.05 - —
Tungstate, tech. kgs., dlvd. East lb. 1.50 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb .23 - —
Sodium carboxymethylcellulose—See CMC.
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, c.l., dms., dlvd. lb. .24½- —
l.c.l., same basis..... lb. .25 - —
Sodium-sulpha drugs (see Sulpha name).
Sodium-titanium fluoride, fib. dms., c.l., works lb. .16½- —
l.c.l. works lb .17½- .20
Sodium-zirconyl sulphate fiber dms., 1,000 lbs. or more, works lb. .28 - —
less 1,000 lbs. same basis lb .30 —
Solvent naphtha coaltar tanks, works gal. .28 - .31
high-flash, tanks, works gal. .28 - .31
petroleum, 100°F., tanks, Baytown, Tex. gal. .31 - —
Bayonne gal. .35 - —
150 F. flash, tanks, Baytown, Tex. gal. .31 - —
Sorbitan monostearate, fib. dms., 20,000 lbs., works lb. .31 - .32
10,000 to 20,000 lbs., works lb. .33 - .34
smaller lots, works..... lb. .36 - .39
tristearate, fib. dms., 20,000 lbs. works lb. .31 - —
10,000 to 20,000 lbs., works lb. .33 - —
smaller lots, works..... lb. .36 - .38
Sorbitol, cryst. pellets, dms., c.l., works lb. .30 —
ton lots to 5 tons, works. lb. .32 - .35
powd., dms. ton lots to 5 tons, works lb. .38 - .39
solution, commercial, aqueous, dms., c.l., works lb. .24¼- —
ton lots, works..... lb. .25¼- —
less ton lots, works.... lb. .26 - —
tanks, works..... lb. .23½- —
regular, 70%, aqueous, dms., c.l., works lb. .16¼- —
ton lots, works lb. .17 - —
less ton lots, works lb. .17½- —
tanks, works lb. .15½- —
Soybean meal, 41% bulk, Decatur. ton.61.50 - —
50%, same basis .....ton.73.00 - —
protein, chemically isolated, 40,000 lbs., dlvd lb. .24 - —
20,000 lbs., same basis .. lb. .24¼- —
smaller lots, same basis lb. .24½- .28
mechanically refined, bgs., 40,000 lbs., same basis. lb. .0600- —
20,000 lbs., same basis lb. .0615- —
smaller lots, same basis lb. .0630- —
Sparteine sulphate, cns ..... oz. .85 1.25
Spearmint leaves, bls..... lb. .60 - .65
Spikenard root, bls ..... lb. .36 - .40
Spruce extract, liq., reg., tanks, works lb. 01¾- —
powd., super, bgs., c.l., works. lb. .05¼ —
Squaw vine leaves, bls. ..... lb. .35 - .40
Squill, red, fortified, powd., bbls. boxes lb 1.60 - —
White, bls..... lb. .12 - .14
powd., bbls., bxs..... lb. .16 .18
St. Ignatius beans, bgs ..... lb No stocks.
St. John's bread, edible, bls. ....lb. .11 - .13
Stainless steel flake, dry, dms., works lb 1.50 - —
paste, dms., works..... lb 1.25 - —
Stannous chloride (see Tin chloride, stannous).
Star root (see Helonias root).
Stargrass root (see Aletris root).
Starch, corn, pearl, paper bgs., c.l., 100 lbs. 6.27 - —
Chicago .....100 lbs. 5.62 - —
l.c.l. .....100 lbs. 6.42 - —
powd., paper bgs., c.l....100 lbs. 6.38 - —
Chicago .....100 lbs. 5.73 - —
l.c.l. .....100 lbs. 6.53 - —
Prices for corn starch in cotton bags, 25c. per 100 lbs. higher.
Potato, Idaho, bgs., c.l., works lb. .05 - —
Maine, bgs., c.l., works.... lb. .05 - —
l.c.l., spot..... lb. .07½- .07¾
Rice, bgs. ..... lb. .10¾- .11
Sweetpotato, bgs., c.l..... lb No stocks.
Wheat, bgs. ..... lb. .0660- .0710
Stavesacre seed, bgs ..... lb .60 .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls ..... lb .35 - .38
Stoneroot, bls ..... lb 07¼ .08
Storax, USP cs ..... lb 1.50 1.60
Stramonium leaves, bgs. ..... lb. .20 - .22
Seed, bgs..... lb. .20 .21

Streptomycin, hospitals, vials gram. .60 - —
wholesalers, vials gram. .48 - —
Strontium bromide, NF, cns..dms., lb. .77 - —
Carbonate 90% dms..... lb 15½- .16¼
Chloride, tech., bbls..... lb .22 - .24
Chromate, bbls. works..... lb. .50 - —
Iodide, jars, 25 lbs..... lb. 3.37 - —
Nitrate, bbls., c.l., works..... lb 09¼- —
l.c.l. works ..... lb 10¼- —
Oxalate, bbls. works ..... lb 42 - .44
Salicylate, NF, dms..... lb. 1.65 - —
Sulphate air-floated 90% 325 mesh bgs. works ton.56.70 - 66.15
Strontium-calcium sulphide, phosphorescent dms. works lb 2.50 2.85
Strophanthin NF bots ..... oz.39.00 —
Strophanthus seed, Kombe, bgs lb 3.00 3.25
Strychnine NF powd. cns. 100 ozs. oz 1.25 - —
Phosphate, NF, 100 ozs oz 1.14 - —
Sulphate USP powd., cns., 100 ozs oz 1.00 - —
Styrene monomer, dms. c.l. works lb. .19½- —
l.c.l., works..... lb. .20¼ —
tanks, works ..... lb. .18 - —
Styrolyl acetate, bots ..... oz 2.50 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works lb .60 - —
tech. bbls. c.l., works lb. .55 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar)
Sulphabenzamide, dms ..... lb 4.25 4.60
Sulphabenzamide-sodium, dms lb 4.25 4.60
Sulphadiazin, USP, crystals, free flowing, dms lb.11.25 11.75
microcrystals, 99%, not over 10 microns, dms lb.10.50 11.00
powder ..... lb.10.25 10.75
Sulphadiazin-sodium, USP granules, free flowing, dms lb.12.25 12.75
powder ..... lb.11.25 11.75

Sulphaguanidin USP, dms ..... lb. 4.50 5.00
Sulphamerazin USP, micro crystals, 99.9% not over 10 microns, dms lb.10.55 11.03
powder, dms lb.10.25 10.75
Sulphamerazin-sodium USP dms., lb.11.25 11.75
Sulphamethazine, micro crystals, dms lb. 8.80 9.30
powder, dms ..... lb. 8.50 9.00
Sulphanilamide, USP, crystals, free flowing, dms lb. 1.40 1.60
microcrystals, dms. ..... lb. 1.35 1.75
powder, dms..... lb. 1.30 1.50
Sulphanilamidoquinoxaline veterinary, dms lb. 8.05 8.23
Sulphapyridin NF powd. bots. tins, lb 7.00 7.50
Sulphapyridin-sodium powd., bots., dms lb. 7.50 8.00
Sulphathiazole, USP crystals, free flowing, dms lb. 4.00 4.50
micro crystals, 99.9%, not over 10 microns, dms lb. 3.75 4.05
powder, dms. ..... lb. 3.50 3.80
Sulphathiazole-sodium, USP dms., lb. 3.50 3.80
Sulphur, commercial, flour, bgs., mines 100 lbs. 1.85 - —
bbls., mines..... 100 lbs. 2.50 - —
lump, bgs., mines..... 100 lbs. 1.70 - —
bbls., mines..... 100 lbs. 2.00 - —
crude, bulk, c.l., mines, contract long ton.21.00 -22.00
f.o.b. vessels, Gulf ports, export long ton.23.00 - —
domestic and Canada ..... long ton.22.50 -23.50
refined, flowers, USP, bgs., mines, 100 lbs. 3.60 - —
bbls. ..... 100 lbs. 4.75 - —

## Sodium Silicate—Sumac Leaf

Sulphur, refined, flour, light, bgs., mines..100 lbs. 3.35 - —
bbls., mines..... 100 lbs. 4.25 - —
lump, bgs., mines..... 100 lbs. 2.90 - —
rolls, bgs., mines..... 100 lbs. 3.35 - —
bbls., mines ..... 100 lbs. 3.80 - —
salt block, bgs., mines..100 lbs. 3.10 - —
virgin block, bbls., mines 100 lbs. 3.05 - —
rubbermakers, com'l, regular, bgs., mines..100 lbs. 2.15 - —
bbls., mines ..... 100 lbs. 3.30 - —
98-100% passing through 325 mesh, bgs., mines..100 lbs. 2.25 - —
bbls., mines ..... 100 lbs. 3.40 - —
refined, bgs., mines ..... 100 lbs. 2.75 - —
bbls., mines 100 lbs. 2.80 - —
treated, 2.5% mineral oil, bgs., mines..100 lbs. 2.45 - —
bbls., mines ..... 100 lbs. 3.80 - —
10% pine tar treated, bgs., mines..100 lbs. 3.65 - —
washed, NF, bot ..... lb. .31 - —
Sulphur chloride, mono., 55-gal. dms., c.l., frt. equald lb. .03¼- .03½
l.c.l. same basis lb .04¼ —
tanks, same basis..... lb. .03 - .03¼
Dioxide, liquid, com'l, cyls., works lb 09 —
multi unit cars, works lb 0335- —
tanks works lb 045 —
refrigeration, cyls., l.c.l., dlvd lb. .20 - .36
Sumac bark, 28%, grd., bgs., ex-dock..ton.80.00 Nom.
Extract, No. 1, bbls., 25%..... lb. .12½- —
No. 2, bbls., 25%..... lb. .11 - —
crystals, bbls ..... lb. .44 - —
stainless, bbls ..... lb. .14 - —
Leaf, 28% grd., bgs., ex-dock, short ton.84.00 - —

When You Specify
SOLVAY Products
for Textiles ...
... you get the ultimate in quality—the kind of quality you would expect from America's leading producer of alkalies. But in addition, you get the fast, dependable delivery service which can only come from a company having more than one plant . . . and over 200 local stock points from coast to coast. You also get Solvay's exclusive Technical Service . . . men specially trained in the textile industry.
SOLVAY SALES DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.
SOLVAY
PRODUCTS for the Textile Industry
LIQUID CHLORINE
CAUSTIC SODA
SODA ASH
SODIUM NITRITE
POTASSIUM CARBONATE
CAUSTIC POTASH
AMMONIUM CHLORIDE
CALCIUM CHLORIDE
NYTRON
Soda Ash • Caustic Soda • Caustic Potash • Chlorine • Potassium Carbonate • Calcium Chloride • Sodium Bicarbonate • Specialty Cleansers • Sodium Nitrite
Nytron • Ammonium Bicarbonate • Para-dichlorobenzene • Ortho-dichlorobenzene • Monochlorobenzene • Methanol • Ammonium Chloride • Formaldehyde

## Superphosphate—Trimethylamine

Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, Baltimore unit-ton .76 - —
Carteret, N. J. unit-ton .70 - —
triple, 48% or more, a.p.a., pulv., bulk, East Tampa, Fla. unit-ton .84 - —
Prices on 48% triple superphosphate in other states and D. C. are per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.

Sweet basil, imported, bls. lb. .90 - 1.00
Californian, bgs lb. 1.15 - 1.20

## T

Talc dom., ordinary, grd., Calif., bgs., c.l., works ton 25.00 - 35.00
Vermont, bgs., c.l., works ton 14.00 - —
l.c.l., works ton 17.50 - —
fibrous, New York, off-color, grd., bgs. c.l., works ton 24.00 - —
l.c.l. ton 26.50 - 28.00
98.5-99.5% 325 mesh, bgs., c.l., works ton 25.00 - —
l.c.l., works ton 27.00 - —
imp. Canada grd. bgs., c.l., mines ton 12.50 - 35.00
Tallow, edible, dms., c.l. lb. .17 - —
inedible, extra, loose, c.l., dlvd lb. .14 - —
fancy, loose, c.l., dlvd lb. .14¼ - —
special, loose, c.l., dlvd lb. .13¼ - —
sulphonated, 25%, dms lb. .09 - .09½
50%, dms. lb. .11½ - .12
Tamarind, W. I. bbls. lb. .10 - .15
kegs keg 10.00 - —
Tankage, animal feeding, 9-11% ammon., bulk unit-ton 8.50 - —
Chicago unit-ton 9.00 - —
Tansy leaves, bls. lb. .28 - .30
Tapioca flour, high grade, bgs. lb. .07½ - .07¾
medium grades, bgs. lb. .07 - .07¼
low grades, bgs. lb. .06¼ - .06¾
Java, bgs. lb. No stocks.
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .45½ - —
l.c.l., same basis gal. .47½ - —
tanks, same basis gal. .35½ - —
25-28%, dms., c.l., same basis, gal. .52½ - —
l.c.l., same basis gal. .54½ - —
tanks, same basis gal. .42½ - —
80-83%, dms., c.l., same basis, gal. .70 - —
l.c.l., same basis gal. .72 - —
tanks, same basis gal. .60 - —
Tar, coal (see Coaltar).
Pine (see Pinetar).
Tarragon herb, bgs. lb. .45 - .50
Leaves, bgs. lb. .75 - .80
Tartar emetic, tech., gran. or powd., bbls., kgs lb. .49 - —
dms. lb. .50 - .54
USP, powd., bbls., dms., kgs lb. .52 - .53
Terpin hydrate, com'l, bbls., c.l lb. .24½ - —
l.c.l. lb. .25 - .25½
NF, cryst., bbls., dms lb. .75 - —
powd., bbls., dms lb. .80 - —
Terpineol, Alpha (see A),
com'l, dms., c.l., South lb. .13½ - —
l.c.l., South lb. .14 - —
tanks, South lb. .13 - —
prime, dms. lb. .39 - .55
Terpinglycol ether, dms., c.l., works lb. .19½ - —
l.c.l., works lb. .20 - —
tanks, works lb. .19 - —
Terpinyl acetate, extra, cns., dms lb. .60½ - .70½
prime, dms lb. .39 - .50
Terra alba (see Gypsum).
Testosterone, USP, 100 gms., bots. gm. 3.75 - —
Propionate, USP, 100 gms., bots., gm. 3.75 - —
Tetrachloroethane, dms., works lb. .08 - .08¼
Tetrachloroethylene, USP, 55-gal. dms., works lb. .20½ - .21½
smaller dms., works lb. .23½ - .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works. lb. .70 - —
Pyrophosphate, 40% cns., dms., works lb. .80 - —
Tetraethylenepentamine, dms., c.l., works lb. .51½ - —
l.c.l., works lb. .52 - —
tanks lb. .50 - —
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium metal, dlvd lb. 12.50 - 15.00
sulphate, 99% bots., dlvd lb 10.50 - 13.00
Theobromine, fib. dms. lb. 5.25 - 6.00
Salicylate, fib. dms lb. 4.40 - 4.45
with sodium acetate, USP, dms lb. 4.05 - 4.10
Sodio-salicylate, fib. dms lb. 3.30 - 3.35
Theophylline, anhyd., or USP, 100-lb. dms. lb. 5.50 - 6.00
Thiamine hydrochloride, USP, bots., 100 grams kilo. 160.00 - —
Mononitrate, bots., 100 grams kilo. 160.00 - —
Thiocarbanilide, dms lb. .40 - .42
Thiodiphenylamine (see Phenothiazine).
Thiouracil, dms., works lb. 5.50 - 5.60
Thiourea, tech., dms., c.l., works lb. .44 - —
l.c.l., works lb. .46 - —
Thorium nitrate, cs., works lb. 3.50 - —
Threonine, dextro - laevo, bots., 100 grams. 115.00 - —
Thyme, French, bgs. lb. .19½ - .20
Spanish, bls. lb. .08½ - .09
Thymol, kgs. lb. 3.50 - —
Iodide, NF, dms. lb. 6.60 - 6.70
Timbo root (see Cube root).
Tin chloride stannous, anhyd., dms., works lb. 1.22 - 1.23
Crystals, hydrous, bgs., bbls., works lb. .92 - —
Metal lb. 1.36 - —
Oxide, bbls. lb. 1.39½ - —
Sulphate, stannous, bbls. lb. 1.21¾ - 1.23¾
Tetrachloride, anhyd., dms., works. lb. .81½ - .82½
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd. lb. .21 - .21½
l.c.l., dlvd. lb. .22 - .22½
chalk resistant, bgs., c.l., dlvd. lb. .21 - .21½
l.c.l., dlvd. lb. .22 - .22½
regular, bgs., c.l., dlvd. lb. .21 - .21½
l.c.l., dlvd. lb. .22 - .22½
rutile, natural granular, bgs., c.l., works lb. .04¼ - —
5-ton lots works lb. .04½ - .05¼
milled, bgs., c.l., works lb. .04¼ - —
5-ton lots, works lb. .04¾ - .05½
non-chalking, bgs., c.l., dlvd., E lb. .23 - .23½
l.c.l., dlvd. E lb. .24 - .24½
Hydride, cns., works lb 7.00 - 8.00
Pigment, calcium-rutile, base, bgs., c.l., dlvd. lb. .03 - .03½
l.c.l., dlvd. lb. .03½ - .09
Titanium dioxide and pigment in obls., ¼c. higher; Pac coast c.l., dlvd., l.c.l. ex whse. ½c higher
Tetrachloride, CP, 55-gal. dms lb. .54½ - —
smaller pkgs., works lb. .57½ - —
technical, dms., works lb. .34½ - —
smaller pkgs., works lb. .37½ - —
Surinam cs lb 1.00 - 1.15
Tolu balsam, cns., dms lb. 4.30 - 4.50
Toluene (see Toluol)
Tolidin base, distilled, kgs lb. 1.20 - —
Toluol, coaltar, industrial and nitration, tanks, works:—
Bethlehem, Pa gal. .27 - —
Birmingham dist gal. .25 - —
Chicago dist gal. .28 - —
Cleveland district gal. .27¾ - —
Geneva, Utah gal. .21 - —
Hamilton, Ohio gal. .27 - —
Johnstown, Pa gal. .25 - —
Lackawanna, N. Y gal. .28 - —
Lone Star, Tex gal. .26½ - —
Lorain, Ohio gal. .26 - —
Minequa, Colo gal. .25½ - —
Philadelphia, Pa gal. .28½ - —
Pittsburgh district gal. .25 - —
Sparrow's Point, Md gal. .27 - —
St. Louis, Mo gal. .30 - —
Syracuse, N. Y gal. .25½ - —
Terre Haute, Ind gal. .28½ - —
Wyandotte, Mich gal. .28 - —
Youngstown, Ohio gal. .25½ - —
Petroleum, industrial 2°, tanks, works:—
Albany, N. Y gal. .33 - —
Bayonne, N. J gal. .33 - —
Baytown, Tex gal. .31 - —
Chicago, Ill gal. .33 - —
Detroit, Mich gal. .33 - —
Philadelphia, Pa gal. .33 - —
Providence, R. I gal. .33 - —
Wood River, Ill gal. .33 - —
Tolylene di-isocyanate, dms., works. lb. 4.00 - 4.50
Tonga 50% bark and vine bls lb .80 .85
Tonka beans Angostura cks lb 1.75 1.80
Brazilian cs lb 1.00 1.15
Totaquine, 100-oz. lots, cns. oz. .42 - —
Toxaphene, dms., c.l., works lb. .23 - —
truckloads, works lb. .23 - —
ton to truckloads, works lb. .26 - —
less than tons, works lb. .29 - —
Triacetin, dms., dlvd lb. .51½ - .52½
Tributyl citrate, tech., dms lb. .35½ - —
smaller containers lb. .71 - —
Phosphate dms c.l. frt all'd lb 56½ - —
l.c.l., same basis lb. .57½ - —
smaller containers lb. .61½ - —
Tributylamine dms., c.l., frt. alld. lb. 78¾ - —
l.c.l., same basis lb. 79¾ - —
tanks, same basis lb 77 - —
Trichlorobenzene dms. c.l. works, frt. alld lb. .11½ - —
l.c.l., frt. alld lb. .12½ - —
tanks, frt. alld lb. .10 - —
Prices in the West 1¾c higher
Trichloroethane, dms., c.l., works lb. .13 - —
l.c.l., works lb .13½ - —
tanks, works lb .11½ - —
Trichloroethylene, dms., c.l. or truckload works frt equald. lb. .11 - —
l.c.l., same basis lb. .11½ - —
tanks, same basis lb. .10 - —
Trichloroethylene, dms., c.l., dlvd. E lb. .11¼ - —
l.c.l., dlvd. E lb. .11¾ - —
tanks, dlvd. E lb. .10¼ - —
Tricholine citrate, 65% solut., ret., chys. works frt adjusted lb 2.10 - 2.15
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .34 - —
l.c.l., dlvd lb. .35 - —
tanks, dlvd lb. .32¼ - —
petroleum, dms., c.l., dlvd lb. .34 - —
l.c.l., dlvd lb. .35 - —
tanks, dlvd lb. .32¼ - —
Triethanolamine dms., c.l., frt. alld. E lb. .24¾ - —
l.c.l., same basis lb .25¾ - —
tanks, same basis lb. .23 - —
Triethylamine dms., c.l., works, frt. alld, E lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .36¼ - —
Triethyl citrate, tech., dms. lb. .35½ - —
Triethyl citrate, tech., dms. lb. .71 - —
refd., dms lb. .71 - —
smaller containers lb. .96 - —
Phosphate dms., works, c.l lb 38 - —
l.c.l. same basis lb .39 - —
tanks, same basis lb 37 - —
Triethyleneglycol, dms., c.l., frt, alld., E lb. .22¼ - —
l.c.l., same basis lb. .23¼ - —
tanks, same basis lb. .20½ - —
Triethylenetetramine, dms., c.l., works lb. 41½ - —
l.c.l., works lb. 42 - —
tanks lb. 40 - —
Trimethylamine, 25% 40%, dms., c.l., works frt equald, 100% basis, lb. 38 - —
l.c.l. works frt equald, 100% basis lb 38½ - —
tanks, works frt. equald. 100% basis lb. .33 - —


TITANOX
PIGMENTS SERVE THE FOLLOWING FIELDS:

PAINT
PAPER
RUBBER
FLOOR COVERING
COATED FABRICS
PLASTICS
TEXTILE
CERAMICS
VITREOUS ENAMEL
GLASS
WELDING ROD
INK
LEATHER
BUILDING MATERIALS

VERSATILE SPECIALISTS

Specialization of individual TITANOX pigments is not carried to the extreme of single end-product usage.

Take TITANOX-RA as one example of the TITANOX line. The effects of this pigment—whiteness, reduction of after-yellowing, high opacity in thin films, high gloss, reduced chalking—all fit it exactly for white and light tinted industrial product finishes. Yet these same properties also recommend it for white and tinted architectural enamels and to multi-purpose enamels in which high chalk-resistance is not needed. In flat wall paints, semi-glosses and painters' enamels, rutile-calcium pigment may be effectively reinforced in hiding by TITANOX-RA.

Our Technical Service Department is ready at any time to furnish further details and to help you in the best application of multi-purpose TITANOX pigments. Titanium Pigment Corporation, 111 Broadway, New York 6, N.Y.; 104 South Michigan Avenue, Chicago 3, Ill.; 2600 South Eastern Avenue, Los Angeles 22, Calif. Branches in all other principal cities.

TITANOX
the brightest name in pigments
8209A

TITANIUM PIGMENT CORPORATION
Subsidiary of NATIONAL LEAD COMPANY

Trimethylhexanol, dms., c.l., works. lb. 20¼- —
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
Tripentaerythritol, bgs., l.c.l. works. lb. .35½- .37½
Triphenyl phosphate, bbls., c.l., frt. equald lb. .33 - —
l.c.l., frt. equald. lb. .34 - —
Triphenylguanidine bbls., works lb. .90 - —
Tripoli air-floated, bgs., c.l. works. lb. .0175- —
double-grd. bgs., c.l. works lb .016 —
single-grd., bgs., c.l. works lb .015 —
Tripropyleneglycol, dms., c.l., frt. alld lb. .25½- —
l.c.l., frt. alld lb. .27½- —
tanks, frt. alld lb. .23½- —
Trisodium fluoroacetate (see sodium fluoroacetate (tribasic).
Trisodium phosphate (see Sodium phosphate, tribasic).
Trypsin, pharmaceutical, 1:80 dms., works lb. 5.00 - —
Tryptophane dextro-laevo, lib ctns. works kilo.207.00 -242.00
Tuba root (see Cube root).
Tungsten metal powd. 99.9% dms works lb. 5.75 - 6.00
Turmeric root, Alleppey, bgs lb. .34 - .35
Haitian, bgs lb. .10 - 10¼
Jamaica, bgs. lb. .10½- .11
Madras, bgs lb. .16 - .17
Turpentine, gum (see Naval Stores Protective Coatings market).
Wood, dest.-dist., dms., extra, c.l., works, South. gal. .59 - —
l.c.l., same basis gal. .60 - —
l.c.l., whse gal. .70 - —
steam-dist., dms., incl., c.l., works gal. .50 - —
l.c.l., works South gal. 58 - —
ex whse., NYC gal. .76 - —
tanks, works gal. .42 - —
Tyrothricin, bots. gram 1.00 1.10

## U

Urethane, USP, dms. lb. 1.50 - —
Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs. lb 2.55 - —
yellow, kgs. lb 1.65 - —
Urea, dom. 46% N, bgs., c.l., wks. lb. .04¾- —
l.c.l., works lb. .05¼- —
42% N, bulk, c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla. S. Dak., Tex. and east. ton.99.00 - —
Urea-ammonia liquor, A and B grades, N basis, tankcars Belle, W. Va. ton.115.00 - —
C and D grades, tankcars same basis ton.113.50 - —
37 grade, tankcars same basis ton.137.50 - —
Uva ursi leaves, bls. lb. .08 - .10

## V

Valerian root, Belgian, NF, bls. lb. .35 - .37
Valine, dextro-laevo, dms., works lb.21.00 -27.50
Valonia beards, bgs., ex dock ton.79.00 -80.00
Cups, bgs., ex dock ton.56.00 - —
Extract, powd. ngs. ex dock, duty extra lb. .09½Nom.
Vanadium pentoxide, CP bgs., cns., works lb 7.00 - —
tech. dms. works lb 1.00 1.06
Vanilla beans, Bourbon, tins lb. 3.75 - 4.25
Mexican, cuts, tins lb 6.50 - 6.75
whole, tins lb 7.25 Nom.
Tahiti, cs. lb 2.75 - 3.25
Vanillin, ex eugenol, tins, 25 lbs. lb. 4.00 - 5.50
smaller lots lb. 4.05 - 5.60
ex guaicol, tins, 25 lbs. lb 3.00 - —
smaller lots lb 3.05 - 3.15
ex lignin, tins, 25-lb. lots lb 3.00 - —
smaller lots, tins lb 3.05 - 3.15
Vinyl acetate, 55-gal. dms., c.l., works lb. .17 - —
l.c.l., works lb. .17½- —
tanks, works lb. .16 - —
Butylether, normal, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Ether (see Ether, divinyl).
Ethylether, tech., dms., c.l., wks. lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Isobutylether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Methylether, cyls., works lb. .30 - —
tanks, works lb. .27 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Trichloride (see Trichloroethane).
Vinylpyridin, ref. dms., works lb. 1.50 - —
Viosterol, in alcohol, 1,000,000 D units per gm., bots., lots of 10 billion USP units. 1,000,000 units. .025 - —
lots of 1 billion USP units. 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in neutral vegetable oil, 400,000 or 1,000,000 D units per gm., bots., lots of 10 billion USP units 1,000,000 units. .02 - —
lots of 1 billion USP units. 1,000,000 units. .025 - —
lots of less than 1 billion USP units.1,000,000 units. .03 - —
Vitamin A, natural, acetate, 200,000 to 400,000 A units per gm., bots., cns., dms., lots of 500 million units or more. 1,000,000 units. .16 - —
less than 500 million units. 1,000,000 units. .20 - —
over 400,000 A units per gm., bots., cns., dms., lots of 500 million units or more 1,000,000 units. .17 - —
lots of less than 500 million units .1,000,000 units. .21 - —

Prices above are based on the USP XIII method of conversion, E x 1894.

Vitamin A, natural, acetate, 200,000 to 400,000 A units per gm., bots., cns., dms., lots of 500 million units or more. 1,000,000 units. .17 - —
lots of less than 500 million units .1,000,000 units .21 - —

Vitamin A, natural, acetate, over 400,000 A units per gm., bots., cns., dms., lots of 500 million units or more. 1,000,000 units. .18 - —
less than 500 million units. 1,000,000 units. .22 - —

Prices above are based on the USP XIV method of conversion. Morton-Stubbs Corrected E x 1900.

A, natural, concentrates (see Oil, fishliver)
A, synthetic, acetate, 1,000,000 A units, per gm. 1,000,000 units. .18 - —
A, synthetic, palmitate, 800,000 A units per gm., frt. adjstd. 1,000,000 units. .18 - —
B (see Thiamine hydrochloride).
$B_2$ (see Riboflavin)
B complex, natural (see Rice bran concentrate and Yeast).
$B_6$ (see Pyridoxin hydrochloride).
$B_{12}$, vials, 25, 100 and 500 milligram lots, milligram. .45 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol and Viosterol).
$D_2$ (see Calciferol).
Vitamin E (see Alphatocopherol and Oil, wheat-germ).
G (see Riboflavin).
P-P (see Acid, nicotinic, and Nicotinamide).
H (see Biotin).
Violet, methyl toner (see Blue, methylviolet toner).
V.M.P. naphtha (see Petroleum naphtha).

## W

Wahoo root bark, bls. lb. 1.75 - 1.80
Tree bark, bls. lb. .75 - .90
Warfarin, 0.5%, dms., 50 lbs., f.o.b. N. Y. or Chicago lb. 1.93 - —
25-49 lbs., same basis lb 2.05 - —
5-24 lbs., cns., same basis lb 2.15 - —
truckloads, 50-lb. dms. lb. 1.65 - —
Wattle bark, fair average, or E. Afr., bgs., ex dock ton.71.50 -72.50
merchantable, bgs., ex dock ton.67.00 - —
extract, liquid, 35% tannin, bbls., works lb. .08 - .08½
solid, E. Africa, 61% tannin, bgs., ex dock, duty extra. lb. .0770- .0780
S. Africa, 62% tannin, ex dock, duty extra lb. .0770- .0780
Wax amorphous, see Wax microcrystalline)
Bayberry, bgs., spot lb. .44 - .45
Bees, bleached, USP, bricks, cs. lb. .69 - .71
slabs, bgs. lb. .68 - .70
crude, African, bgs. lb. .56 - .57
Brazilian, bgs. lb. .58 - .60
Central American, bgs. lb. .56 - .57
refined, yellow, bricks, cs. lb. .61 - .62
slabs, bgs. lb. .60 - .62
Candelilla, crude, bgs. lb. .60 - 62
refined, bgs. lb. .66 - .68

Powdered candelilla, 20 mesh, 5c. per lb. extra; 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, ngs. ton lots. lb. No stocks.
North Country, No. 2, ton lots. lb. 1.00 Nom.
No. 3, crude, bgs., ton lots. lb. .96 - .98
refined, bgs., ton lots lb. 1.00 - 1.02
yellow, No. 1, bgs., ton lots lb. 1.05 - 1.06
No. 2 lb. 1.03 - 1.05

Powdered carnauba price differentials same as powdered candelilla.

### Trimethylhexanol—Wax Microcrystalline

Wax, japan, bgs. lb. .56 - .58
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 20,000 lbs., group 3, works lb. .14 - —
Less than 20,000 lbs., same basis lb. 15 - —
black, ctns., 20,000 lbs., same basis lb. .12½- —
Less than 20,000 lbs., same basis lb. 13½- —
white, ctns., 20,000 lbs., same basis lb. .25 - —
Less than 20,000 lbs., same basis lb 26 - —
180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .16 - —
Less than 20,000 lbs., same basis lb. 17 —
black, ctns., 20,000 lbs., same basis lb. .14½- —
less than 20,000 lbs lb. .15½- —
white, ctns. 20,000 lbs., same basis lb. .27 - —
Less than 20,000 lbs., same basis lb. 28 - —
190°-195° m.p., ASTM, amber, basis lb. 20½- —
Less than 20,000 lbs., same basis lb. 21½- —
black, ctns., 20,000 lbs., same basis lb. .19 - —
Less than 20,000 lbs., same basis lb. 20 - —
white, ctns., 20,000 lbs., same basis lb. .33½- —
Less than 20,000 lbs., same basis lb. .34½- —

***Why run all over town for Japan Wax***

***...when you have access to***

***plentiful stocks of less costly***

# KARAGAMI WAX!

No need to worry over shortages and high prices of Japan Wax!

Whatever the purpose, from crayons to textile finishes, you'll find that Concord's KARAGAMI WAX does an equally good job, and *costs considerably less!*

***Consider these Specifications:***

| | KARAGAMI | JAPAN |
|---|---|---|
| Melting Point | 50.0 C | 50.0 C |
| Penetration at 77 F | 21 | 20 |
| Saponification No. | 199.4 | 206.0 |
| Iodine No. | 17.9 | 17.1 |

Mighty close, as anyone will agree! And Karagami Wax is readily available, bearing a price tag that means savings in these days of inflated costs.

***Write today for a generous working sample. No obligation.***

**CONCORD CHEMICAL COMPANY**
**MOORESTOWN, NEW JERSEY, Moorestown 9-1100**

CRESYLIC ACID • JAPAN AND CARNAUBA WAX REPLACEMENTS
CANDELILLA WAX • REFINED TALL OIL

## Wax, Montan—Zinc-Formaldehyde Sulphoxalate

Wax montan, dom., black, raw lb. .25 - .25¼
refined lb. .31 .32
imported, Bohemian, bgs. lb. .15½- .16
German, bgs. lb. .15½- .16
Ouricury, refined, bgs., ton lots lb. .85 - .87
Paraffin see P.
Spermaceti, blocks, cs. lb. .28 - .31
cakes, cs. lb. .29 - .32
Sugar, cane, crude, imp., bgs. lb. No stocks.
refined, dom., slabs, works lb. .69 - .74
imp., bgs., N. Y. lb. .48 - .50
White lead (see Lead, white).
White pine bark, rossed, bls lb. .18 - .20
White precipitate USP powd., dms. 50 lbs lb. 2.30 - 2.60
Whiting, limestone, dry-grd. 99.5%, 325 mesh bgs. c.l. works. ton. 6.00 -10.00
smaller lots works ton. 6.50 -15.00
wet-grd., bgs., c.l., works ton.16.00 -30.00
smaller lots, works ton.21.00 -35.00
Paris white, bgs., c.l. ton.24.00 -31.00
l.c.l. whse ton.25.00 -40.00
Precipitated, bgs., c.l. ton.18.00 -20.00
l.c.l. ton.25.00 -35.00
Wild cherry bark, thick, natural, bls lb. .06 .07
thin, natural, bls. lb. .15 - .16
rossed, bls. lb. .18 - .19
Wild indigo root, bls. lb .30 .31
Wild yam root, bls lb 16 .17
Witch hazel leaves, bls. lb. .23 - .25
Woodflour 40 mesh bulk, c.l., works, East ton.32.00 - —
l.c.l. same basis ton.40.00 - —
60 mesh, bulk, c.l. same basis ton.37.00 - —
l.c.l., same basis ton.45.00 - —
Woodflour, 80-100 mesh, bulk, c.l., same basis ton.40.00 -45.00
l.c.l., same basis ton.50.00 -55.00
Woodflour in bgs. extra, returnable.
Woolfat (see Lanolin).
Wormseed, American, bgs. lb. .13 - .14
Levant, bgs. lb. 4.50 - 5.00
Wormwood leaves, bls lb .35 - .45

## X

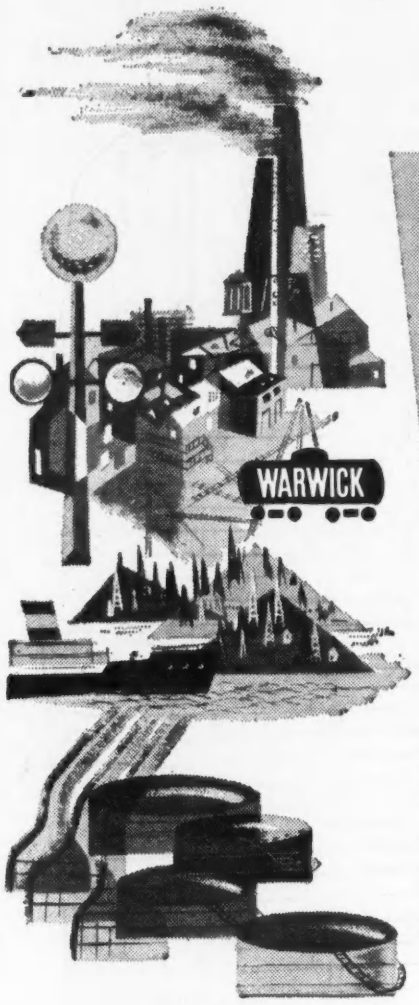
Xanthorrhiza root, bls lb. .28 - .30
Xylene (see Xylol)
Xylenol, cryst., 56°-58°C. m.p., ret. dms., c.l. works, frt equald lb. .193 - —
l.c.l. same basis lb. .196 - —
tanks, same basis lb. .18 - —
45°-47°C, dms., c.l., frt. equald. lb. .153 - —
l.c.l., same basis lb. .156 - —
tanks, same basis lb. .14 - —
fractions, over 7°C., b.p., except meta, dms., c.l., same basis gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —
tanks, same basis gal. .95 - —
Meta fraction, over 7°C., dms., c.l., same basis gal. 1.16 - —
l.c.l., same basis gal. 1.19 - —
tanks, same basis gal. 1.05 - —
Xylidins, mixed, dms lb. .45 - .50
Xylol, coaltar, industrial, tanks, works—
Bethlehem, Pa. gal. .29 - —
Birmingham district gal. .26¼- —
Chicago district gal. .29½- —
Xylol, coaltar, industrial, tanks, works, Cleveland district, gal. .29 - —
Geneva, Utah gal. .31 - —
Hamilton, Ohio gal. .28 - —
Johnstown, Pa. gal. .27 - —
Lackawanna, N. Y. gal. .29 - —
Lone Star, Tex. gal. .27 - —
Lorain, Ohio gal. .27 - —
Minequa, Colo. gal. .29 - —
Philadelphia, Pa. gal. .29 - —
Pittsburgh district gal. .26 - .29
Sparrows Point, Md. gal. .29 - —
St. Louis, Mo. gal. .30 - —
Syracuse, N. Y. gal. .26½- —
Terre Haute, Ind. gal. .31 - —
Wyandotte, Mich. gal. .29 - —
Youngstown, Ohio gal. .26¼- —
Petroleum, indust., 10°, tanks, works:—
Albany, N. Y. gal. .33 - —
Bayonne, N. J. gal. .33 - —
Baytown, Tex. gal. .31 - —
Chicago, Ill. gal. .33 - —
Detroit, Mich. gal. .33 - —
Philadelphia, Pa. gal. .33 - —
Providence, R. I. gal. .33 - —
Wood River, Ill. gal. .33 - —

## Y

Yara yara, cns. lb. 2.25 - 2.30
Yeast, brewer's dry, USP, 50 B units per gram, 100-lb. dms. lb. .46 - —
90 B units per gram, 100-lb. dms. lb. .51 - —
200 B units per gram, 100 lb. dms. lb. .55 - —
300 B units per gram, 100 lb. dms. lb. .59 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock island, St. Louis, St. Paul lb. 2.30 - —
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.
Benzidin, bbls., dlvd lb. 1.91 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies lb. 2.65 - 2.80
Lithopone, all shades, bbls., frt. alld. E. of Rockies lb. 1.22 - —
Cadmium yellows, Los Angeles and San Francisco, ex whse l.c. per lb. higher.
Chrome, CP, bbls., dlvd. N. Tenn. and N. C. E. of Miss., including Davenport, Minneapolis, Rock island lb. .30 - .31
Dlvd. Ala., Fla., Ga., La. (Shreveport) 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Hansa, bbls., same basis as chrome lb. 1.91 - 2.15
Primrose, bbls. same basis lb 1.90 2.10
Iron oxide, natural, bgs., c.l., works lb. .0141- .0250
l.c.l., works lb. .0166- .0275
French type, bgs. c.l. lb. .04½- —
l.c.l. lb. .04¾- —
Peruvian type bgs. c.l. lb. .0185- .0310
synth., bgs., c.l., works lb. .09½- —
l.c.l., works lb. .09¾- —
Mercury oxide, bbls., 1,000-lbs. lb. 2.13 - 2.38
smaller lots lb. 2.15 - 2.49
Ocher American golden, bgs., works lb. .01¼ .02¾
Zinc, bbls. same basis as chrome, lb. .23 - .29
Yellow dock root, bls lb. .16 - .25
Yellow xanthorrhiza (see Xanthorrhiza)
Yerba santa leaves, bls lb. 28 - .30
Yohimbine hydrochloride, vls. oz. 4.75 - 5.25

## Z

Zein, bgs., 36,000 lbs., works lb. .30 - —
1,000 lbs. to 36,000 lbs. works lb. .32 - —
smaller lots, works lb. .35 - —
Zinc acetate, tech. bbls. dms. lb. .26¼- —
NF, dms. lb. .41 - —
Borate, bgs., c.l., dlvd. E. lb. .18½- —
l.c.l., dlvd. E. lb. .19½- —
Carbonate, purified, powd., dms. lb. .26 - —
tech., rubbermakers', bgs., works. lb. .10¾- .11¼
precipitated, powd., dms. lb. .26 - —
Chloride, tech., fused, dms., c.l., works 100 lbs. 7.70 - —
l.c.l., works 100 lbs. 8.10 - —
gran., bbls., c.l., works 100 lbs. 8.45 - —
l.c.l., works 100 lbs. 8.85 - —
French process, com'l, lead-free, bgs., c.l., dlvd lb. .16 - —
l.c.l., dlvd. lb. .17 - —
solution, 50%, dms., c.l., works 100 lbs. 4.25 - —
l.c.l., works 100 lbs. 4.85 - —
tanks, works 100 lbs. 3.60 - —
NF, gran., dms lb. .42 - —
Chromate (see Yellow, zinc).
Cyanide, kgs., works lb. .457 - .477
Dust, c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
Fluoride, bbls., works lb. .40 - —
hydrosulphite, dms., c.l., frt. alld. lb. .19¾- —
l.c.l. lb. .20¼- —
Iodide, NF, jars lb. 4.85 - —
Laurate, bbls lb. .45 - .46
Metal, slabs, E. St. Louis lb. .17½- —
Naphthenate, liquid, 8% Zn, frt. alld lb. .23 - —
10% Zn, dms., frt. alld lb. .27¾- —
Oleate, fused, bbls lb. .36 - —
Oxide, pigment, dom., acicular, bgs., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
American process, com'l, lead-free, bgs., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
leaded, 5%, bgs., c.l., dlvd. lb. .16 - —
l.c.l., dlvd lb. .17 - —
35%, bgs., c.l., dlvd. lb. .16⅝- —
l.c.l., dlvd lb. .17⅝- —
50%, bgs., c.l., dlvd. lb. .16⅞- —
l.c.l., dlvd lb. .17⅞- —
French process, com'l, green seal, bgs., c.l., dlvd lb. .17¾- —
l.c.l., dlvd lb. .18¾- —
red seal, bgs., c.l., dlvd. lb. .17¼- —
l.c.l., dlvd lb. .18¼- —
white seal, bgs., c.l., dlvd lb. .18¼- —
l.c.l., dlvd lb. .19¼- —
USP, ctns., c.l., dlvd lb. .19¼- —
l.c.l., dlvd lb. .20¼- —
Zinc oxide Pac. coast prices 1c. higher; bbl. prices ¼c. higher than bgs.
Phenolsulphate, dms lb. .36 - —
Resinate, precip., dms., frt. alld lb. .23½- —
Silicofluoride, bbls., works lb. .10 - .10½
Stearate, tech., USP, ctns., c.l. lb. .42 - —
ton lots lb. .43 - —
less ton lots lb. .44 - —
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld 100 lbs. 6.85 - —
l.c.l., same basis 100 lbs. 7.25 - —
flake, 25½%, Zn, bgs., c.l., works, dlvd 100 lbs. 6.05 - —
l.c.l., works 100 lbs. 6.45 - —
powdered, 36% Zn, bgs., c.l., dlvd., same basis 100 lbs. 9.25 - 9.40
l.c.l., same basis 100 lbs. 10.00 -10.15
Zinc sulphate in bbls. 40c. higher
USP, gran., dms lb. .23 - .23¼
Sulphide, pure, bgs., c.l., dlvd lb. .24 - —
l.c.l., dlvd lb. .25 - —
Thionosulphonate, NF, gran., bbls., dms lb. .33 - .34
powd., bbls lb. .36 - .37
Undecylenate, dms lb. 1.90 - 2.00
Yellow (see Yellow, zinc)
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 7.35 - —
l.c.l., works 100 lbs. 7.75 -10.25
Zinc-cadmium sulphide, fluorescent, cns., frt. alld lb. 2.00 2.80
Zinc-calcium resinate, dms., c.l., works lb. .1180- .1360
l.c.l., same basis lb. .1220- .14
Zinc-formaldehyde sulphoxalate, basic, dms., c.l. lb. .23½- —
l.c.l. lb. .24 - —
normal, dms., l.c.l., works lb. .50 - —


*for the better polishes*
*use the better wax*

WAX
CARDIS*

*America's most widely used emulsifiable petroleum wax*

Cardis gives the wax film:

**PLASTICITY** without decreasing the melting point
**HIGHER GLOSS**
**BETTER WEAR RESISTANCE**
**GREATER TOUGHNESS**
**ANTI-SLIP CHARACTERISTICS**
**STABILITY**

*Our technical service is available to you for the asking. Write for a free personal demonstration, with practical formulations, to show you how Cardis may improve the balance of your products. Samples and technical data on request.*

WARWICK
WAX
Company, Inc., Subsidiary of Sun CHEMICAL CORPORATION
10th STREET and 44th AVENUE
LONG ISLAND CITY, NEW YORK

*Refineries:* Chanute, Kansas • Kilgore, Texas

*Trade Mark Reg.

| | | | |
|---|---|---|---|
| Zircon (see Zirconium silicate). | | | |
| Zirconium acetate, 13% sol $ZrO_2$, bbls., works | lb. | .21¼- | — |
| Carbonate, basic, cake, bbls., works | lb. | .30½- | — |
| Hydride, cns., works | lb. | 7.00 - | 8.00 |
| Nitrate, dms., works | lb. | 1.75 - | — |
| Oxide, 98½-99% white, grd., bbls. or bgs., works | lb. | 1.50 - | — |
| lump, electric-fused, bgs., c.l., works | lb. | .44 - | — |
| 5 tons, works | lb. | .44½- | — |
| 1 ton or less, works | lb. | .45 - | .48 |
| milled, electri-fused, bgs., c.l., works | lb. | .59 - | — |
| 5 tons, works | lb. | .59½- | — |
| 1 ton or less, works | lb. | .60 - | .63 |
| Oxychloride, cryst., ctns., 5 tons, works | lb. | .29½- | — |
| Silicate, granular, bgs., c.l., works. | lb. | .03¼- | .03¾ |
| 10 tons, works | lb. | .03½- | .04 |
| 5 tons, works | lb. | .04 - | — |
| 1 ton or less, works | lb. | .04¼- | .04¾ |
| milled, bgs. c.l., works | lb. | .04¾- | — |
| 5 tons, works | lb. | .05¼- | — |
| 1 ton or less, works | lb. | .05¾- | .06¾ |
| refined, bgs., c.l., works | lb. | .11 - | — |
| 5 tons, works | lb. | .11½- | — |
| 1 ton or less, works | lb. | .12 - | .16 |
| Sulphate, cryst., ctns., c.l., works. | lb. | .37½- | — |
| 5 tons, works | lb. | .38 - | — |
| 1 ton or less, works | lb. | .38½- | .39 |

## *Congress Gets Caution Plea*

—*Continued from page 3*

problems that would be met in attempting to apply the "new drug" technique of control to chemicals. He noted that new drug applications are accepted only for ultimate consumer drug products and not for medicinal chemicals sold for manufacturing use. Therefore to apply the new drug type of control in parallel fashion to chemicals in the foods, the application would cover "new foods," rather than "new chemicals."

**Potential Problems Listed**

"If we attempt to make applications effective for chemical raw materials," Dr. Foulger declared, "some interesting problems are raised. For example:—

"1. Assuming that a manufacturer submits to FDA toxicological data on a new chemical, the agency will not know whether the chemical is safe or not unless it knows into what foods and in what quantities it is to be incorporated. If the label on the chemical carries a statement naming the foods into which the chemical may go, and the quantities the food manufacturer should use, the Administration would have basic information on which to make the application effective. This would not assure, on the other hand, that the public will be safe, since the food manufacturer has the power to use the material according to his own formula and regardless of label directions, and according to his own manufacturing technique and control methods.

"2. If a chemical manufacturer sells a chemical not planning or intending that it go into a food, and, therefore, it is not so labeled or advertised, he should not be held responsible to file an application for use in foods, or for violation of law if a food manufacturer buys it and so uses it.

"3. While label directions may be written for some products having specific food uses, such as a baking powder, the possible uses in food of other well known chemicals is so extensive as to make an adequate label impossible.

"4. Even for products having intended food uses, the chemical manufacturer could not and should not need to anticipate all the possible variations of formula and of manufacturing conditions that may be created by the food processor, and should not need to test for possible joint and cumulative actions between his product and any other ingredient the processor may decide to use in his product. It can readily be foreseen that if this were to be the case, research in and development of new and improved products—and incidentally the development of products less toxic than now used—would be retarded.

"5. Under the food, drug, and cosmetic act a drug is deemed new if it is labeled for new uses, although the drug is otherwise an old one. If an old chemical is proposed for addition to a new food, would it become a new chemical for the purposes of the law? For example, suppose that salt is added to a new type gelatin by a food manufacturer, and that there is no effective application for salt in gelatin. The chemical manufacturer should not be held to violate the new chemical section in selling the salt. The problem of determining what is old and what is new in products used as ingredients of other products will be much more difficult and burdensome than the same problem under the new drug law applying to ultimate consumer products only."

Isaac Fogg, president of Atlas Powder Company, testified on the research work that has been carried on in the use of the food emulsifiers produced by his company, and protested the tentative order of the Food and Drug Administration that would exclude their use in bakery products. He charged competitors with resorting to an intensive propaganda campaign to discredit Atlas emulsifiers, and urged FDA to subject the competing emulsifiers to the same criteria, standards and tests as Atlas products.

Mr. Fogg's testimony as to the harmlessness of Atlas products, was supported by Dr. John C. Krantz, jr., professor of pharmacology, of the School of Medicine, University of Maryland, who had conducted extensive research on the products, "Span," "Tween" and "Myrj." The studies extended over a period of ten years and included nearly 3,000 animals. He said they revealed nothing that would interdict the use of these emulsifiers in man at their maximal reported feasible limits.

## *Drug Trade Conference*

—*Continued from page 4*

to get a definite and reasonable presentation of views and application of controls.

As there was considerable comment on the desires of FDA for further authority under several provisions of the law, it was brought out in this that the administration has extended the sterility period in the testing of antibiotics on the basis of having found mold and yeast in using bigger samples of test materials. It was said this extension, it was feared, would have a serious effect in interrupting the flow of antibiotics to meet the demand.

With respect to uniform state legislation, Robert P. Fischelis, committee chairman, reported that things had been relatively inactive because but a few state legislatures were in session. No new enactments of any of the model laws had been made during the year. The committee has no plans for new undertakings, but will push the enactment of the model laws in state pharmaceutical circles.

Some amendments in the constitution were suggested in a report by mail by Dr. George D. Beal. One of these was that a definite date be set for the annual meeting, the first Friday in December being suggested. Another was that for the adoption of motions a three-fourths majority vote be sufficient. No change was suggested, however, in the requirement of a unanimous vote for the approval of any matter of policy.

At the afternoon session, the participants passed a series of resolutions, for the most part reaffirming actions taken at previous meetings. They also passed a memorial resolution for Dr. E. L. Newcomb.

**Election of Officers**

Officeholders were reinstalled, there being no contest in the annual election. Following are the officers:—President, Carson P. Frailey, of the American Drug Manufacturers Association, Washington; vice-president, Dr. Fred J. Cullen, of the Proprietary Association, Washington, and secretary-treasurer, Ray Schlotterer, of the Federal Wholesale Druggists Association, New York.

In addition to these officers other members of the executive committee, chosen by their respective organizations, are:—

American Association of Colleges of Pharmacy, Dr. Hugh H. Schaefer, Brooklyn, N. Y.

American Pharmaceutical Association, Dr. Robert P. Fischelis, Washington.

American Pharmaceutical Manufacturers Association, J. O'Neill Closs, New York.

National Association of Boards of Pharmacy, P. H. Costello, Chicago.

National Association of Chain Drug Stores, Carl Willingham, New York.

National Association of Retail Druggists, John W. Dargavel, Chicago.

National Wholesale Druggists Association, E. Allen Newcomb, New York.

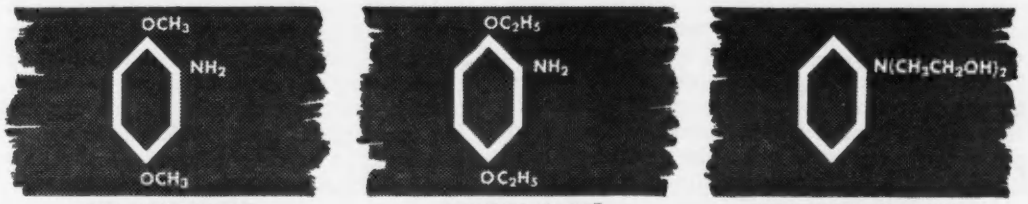
## Eastman Kodak Names Vaughn Vice-President

Eastman Kodak Company, Rochester, N. Y., has appointed William S. Vaughn vice-president and assistant general manager. Mr. Vaughn has been with Kodak for twenty years, and was on leave in 1942-43 to serve with the War Production Board. At the same time, the firm named M. Wren Gabel assistant vice-president.

**Heyden Offers Antibiotics Data**

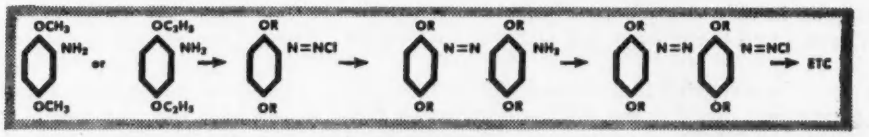
Heyden Chemical Corporation has issued a new three-color illustrated brochure on penicillin and streptomycin. The publication gives data on various diseases and their treatment through penicillin and streptomycin. Copies are available upon written request to Heyden, 393 Seventh avenue, New York 1.


EASTMAN aromatic amines

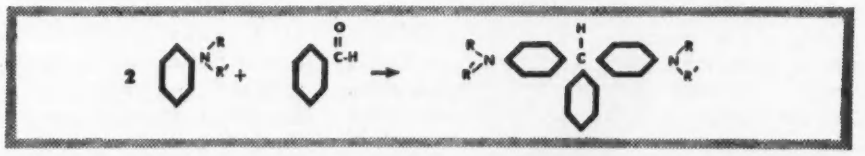



The six Eastman aromatic amines provide a source of an unusual range of couplers and intermediates. Primarily employed in the manufacture of dyes and pharmaceutical chemicals, these compounds are also receiving active consideration as intermediates in the preparation of new insecticides and fungicides.

The two primary amines, dimethoxy and diethoxy aniline, readily form diazonium salts. By virtue of their alkoxy groups these amines are easily coupled to such salts and the resulting compound can again be diazotized.




Under proper conditions phenyl diethanolamine and phenyl ethyl ethanolamine react with the carboxylic oxygen of benzaldehyde or substituted benzaldehyde to produce various triphenyl methane compounds.




Both the phenyl and the tolyl amines are excellent coupling agents and as such find wide usage in the dyestuff industry.

We will be pleased to send you additional information and sample quantities of the Eastman aromatic amines. Write to TENNESSEE EASTMAN CORPORATION (Subsidiary of Eastman Kodak Company), KINGSPORT, TENNESSEE.

SALES REPRESENTATIVES: New York—10 E. 40 St.; Cleveland—Terminal Tower Bldg.; Chicago—360 N. Michigan Ave. West Coast: Wilson & Geo. Meyer & Co., San Francisco—333 Montgomery St.; Los Angeles—4800 District Blvd.; Portland—520 S.W. Sixth Ave.; Seattle—1020 Fourth Ave., South

TENNESSEE EASTMAN CORPORATION (Subsidiary of Eastman Kodak Co.), KINGSPORT, TENNESSEE

# Oil, Paint & Drug Reporter

Founded October 18, 1871, by William O. Allison

Directed 1900-1942, by Harry J. Schnell

Incorporating Drug, Paint and Oil Trade, The New York Drug Bulletin, The Weekly Drug News, New York Druggists' Price Current, The Soap Makers Journal, Oil and Paint Review, and International Petroleum Reporter.

Member of Audit Bureau of Circulations


Copyright 1950 by


SCHNELL PUBLISHING COMPANY, INC.

WILLIAM S. AUCHINCLOSS, *President*

30 Church Street, New York 7, N. Y., U. S. A.

Telephone: REctor 2-9820; Cable Address: Reporter, New York

Volume 158 December 4, 1950 Number 23


## *Make the Financing Equitable*

Every voter should take time to send his representatives in both houses of congress a notification that he expects them to earn their pay in the special session of the lawmakers by providing adequately and equitably for the financing of the current and inevitably increasing military needs of the nation and for a defense program which will meet whatever it may have to.

The only way in which that pressing and inescapable national task can be met is by deeply curtailing all possibly dispensable civilian expenditures of the government and by increasing the revenue by means of a sound and sensible system of taxation. It must be expected that the federal lawmakers will not enthusiastically enter upon either of those undertakings.

Even in this day of sorely threatened national existence—and it is just that—there will persist and often prevail a desire to stay in office at whatsoever cost—to the taxpayers as a whole. Votes must be subsidized. It is also too much to expect sound, sensible taxation to come out of any political source. The cost of governing all the people in the manner that a minority of them demand dare not be impressed upon all as it would be were all taxes equitable and open.

Congress cannot escape the duty of financing the imperative needs of the nation. But, it can dodge a face-to-face meeting of that duty—and the probability is that it will. That is why every taxpayer must keep watch upon what his lawmakers do and subsequently deal with them accordingly.

There must come from every corner of the nation a demand that congress put an end to the spending of governmental revenue for individual, group, and sectional benefits. The blame for that unjustifiable spending rests, not upon Wall Street once blamed for all governmental financial deficiencies, nor upon Pennsylvania Avenue with all the faults of those who function at opposite ends of that thoroughfare. It lies with Main Street in every community in the land. If the Main Streets will but earnestly and honestly declare that they can take care of themselves; that they do not want and will not take federal assistance of any kind, perpetuation in office by means of subsidizing favoritism will pass, and the government can throw away its red ink.

It is not to be expected that savings sufficient for the emergency needs of the nation will be effected by any cost-cutting legislative enactments. More revenue must be raised. That means more must be paid in taxes. But, it does not mean that the paying thereof must fall inequitably upon the payers. To prevent that inequity will be difficult indeed.

The taxing of the incomes of corporations or other businesses is inequitable; but there is no hope that a wholly individual income tax system will be established. In fact, all the clamor—it is woefully misguided—is for higher rates on corporation incomes—to be passed, of course, to the consumer. The howl is for an excess profits tax. But almost in their entirety, all the schemes of that category are something else: the closest they come to being an excess profits tax is to plan to tax expanded profits. The breadth of a profit does not make it excessive; that is a factor wholly of its depth. But, all the tax plans aim at the breadth. They also aim at diminishing the spending power of the people, a purpose for which no ethical justification can be found. Business, believing that a higher corporation tax is inevitable, asks that it come in the nature of an increase in the normal rate, not as a cut at any particular profits which may be classified as excess. That overall increase is quite inequitable. It would penalize the corporation which has not increased the margin of its profit far more heavily than it would fall upon the profiteer.

There is no need for a higher rate of corporate or personal income taxation if possible and practicable savings are made in government spending. The additional revenue which must be raised should be sought in special taxes on excessive profit margins (profiteering) and on the extraordinary profits which will be drawn from the furnishing of materials for military needs.

## *Counsel May Replace Attack*

An era of cooperation with business looms for the Federal Trade Commission, at least within the vision of the FTC member who does not always see things as his colleagues do. That commissioner told an audience last week that it would come to pass—no time was specified—that the procedure of the commission would seek to avoid violations of the laws with which it is concerned through consultation with business as a whole and with individual concerns. He predicted a change of basic reasoning on the part of the commission in that and several other respects.

One of the points at which a change was predicted is the attitude toward "conscious parallel action" among competitors with reference to prices. It seemed that at least the predicting commissioner had arrived at the knowledge that much, if not all, competition in price is a sort of distinctive economic warfare; that those who pose as friends of the public in the role of low-pricers usually have costs as high and profits as wide as their competitors and make up what they lose in price-cutting by overcharging on other goods where comparisons of values or prices are difficult. Competition in prices which falls into the customary supporting category of "free," seldom is fair in itself and still less often in its concomitants. And that presents another problem under the laws which are designed to regulate such things.

It is that cross-purpose of the laws regulative of competition which is conducive to the varying and frequently conflicting interpretations of the statutes. It cannot be said that the Federal Trade Commission, even in the instances where its findings have been set aside by the appelate courts, has specifically misinterpreted the law. Its interpretations, at least fundamentally, can find support in the language of the statutes, because that wording is not so definite and clear as it should be—statutes are like that: counselors must live. But, the Federal Trade Commission has very often been reminded to give a provision of the law a meaning that did not take into consideration the economic facts involved in the particular application. The same can be said of the courts. The spirit of a law is sometimes lost beyond ready recognition in the letter thereof.

Of course, it is not imperative upon law-enforcing agencies that they accept the exact letter of a statute, without regard for its objective. A judicial referee in New York has dismissed a suit under the state fair-trade law on the grounds that the complainant had sought to maintain the resale price on but one of its closely related products, hence was not entitled to relief under the law which was designed essentially to protect trademark or other proprietary rights and goodwill. The referee held that there could be no damage to such rights by the extension to the third product of the manufacturer of the price-cutting which it had permitted with respect of two others similarly identified. On the other hand, strict adherence to the letter of a law is not misinterpretation.

Reformation in the governmental attitude toward the regulation of competition should go beyond the Federal Trade Commission. It should start with emendment of the applicable laws. In the best service of the purpose of those laws, their enforcement should be wholly with the Department of Justice. The Federal Trade Commission should actually be converted in name and function to what it was originally intended to be—a federal counselor for business. While that conversion waits, the best thing that the existing commission can do is make whatsoever use it can of its authority to function in an advisory capacity, not confining that to trade rules, take a more equitable attitude toward the weighting of testimony, and look to the actual, eventual effect of a trade practice upon the public and upon competition, not merely to the direct, primary, overt effect upon the latter.

# OPD Forum

### An Outlet for Individual Opinion

*(Anonymous communications will not be recognized, but a signer's name will be withheld at request.)*

### *Trademarks in France*

The Editor,
OIL, PAINT AND DRUG REPORTER
Sir:—

With reference to your editorial in yesterday's [November 27] issue regarding "Drug Trademarks in France," there is one major point which you have not mentioned and that is the proven fact that the French government, namely the Ministry of Public Health, is quite often acting in a way which prevents completely the obtaining of the much needed visa for our products in France.

We know that the French Ministry of Public Health has refused the importation of an American antibiotic for the purpose of independent clinical tests in France which would eventually lead to obtaining a visa.

We also know that, meanwhile, samples of this antibiotic were sent by the New York representative of the French ministry to France, and that a laboratory close to the French ministry proceeded with the application for visa priority. The whole thing is a crooked pattern, and should be exposed.

Unfortunately the inventors and manufacturers of this particular antibiotic have chosen to appease the French Ministry of Public Health, but for the sake of many other American manufacturers, who wish to protect themselves, I think that your article should even be broadened and made available to all firms dealing with France.

Our State department is so anxious to remain on friendly terms with the functionaries abroad that we cannot expect any help at all from our own officials in Paris. They act as if they were really interested in hurting American business instead of helping it. The unfortunate predicament of the United States soldiers in Korea and their reaction is no different.

In this entire unequal relationship between France and the United States, there is one more flagrant case, and that is the utter disrespect that French officials in Rabat, French Morocco, show for American rights, including trademark and patents.

If you wish to have some detailed information on all this, I suggest that you get in touch with Col Robert Emmet Rodes, president of the American Trade Association of Morocco, and I am enclosing a copy of his letter to the President, of recent date.

The facts of all the abuses we are getting commercially from France are slowly coming out. Your publication is doing a fine job in exposing them. Perhaps, the columnist should make the public at large more familiar with our government's idiotic way of handling these cases.

Since we are importing every year large quantities of raw materials from France and its possessions, we are quite familiar with this matter and we regret very much the blindness on the part of our business people in general, and the deliberate "looking the other way" of our State department.

New York A. M.

## *Washington Talks*

—*Continued from page 5*

Campbell's tariffs Nos. 4 and 7 in a single volume. Supplements will be issued to keep it up to date as new orders are issued by ICC. Persons desiring copies should notify H. A. Campbell, chief inspector, Bureau of Explosives, 30 Vesey street, New York 7, N. Y.

### Foreign Samples Get Free Entry

The Bureau of Customs has taken action to smooth the way for the foreign salesman doing business in the United States. Hereafter, a foreign salesman's written word will be sufficient for temporary entry, free of duty, of accompanying samples of merchandise.

It has been the rule in the past that only merchandise having a value of not more than $500 could be entered informally. Also the merchandise had to be covered by a cash or surety bond totaling at least one and one-fourth the amount of the estimated duty on the articles. Now an invoice is required only if the merchandise is valued at more than $500, and the salesman will only have to make a personal bond—a promise to export the samples when he leaves the country.

The penalty for violating the new liberalized procedure will be loss of the free-entry privilege on future trips.

*For increased appeal*

*to "Growing Gourmets"*

*PALATABLE*

# *PFIZER VITAMIN A*

*Because* Pfizer Vitamin A Esters are prepared by organic synthesis, then incorporated in bland, vegetable oil, these potent vitamin esters are exceptionally palatable, stable and well-tolerated. Their use permits the preparation of vitamin capsules, tablets and liquids free from fishy odor and taste. These palatable products naturally have an increased appeal to "Growing Gourmets" and to others of all ages who need Vitamin A.

Pfizer Vitamin A Esters are available as the Palmitate at a potency of 800,000 to 1,000,000 units per gram, and as the Acetate at a potency of 1,000,000 units per gram. Supplied in aluminum containers packaged under nitrogen. Write today for samples, prices and Technical Bulletins #22 and #26.

**CHAS. PFIZER & CO., INC.**
630 Flushing Avenue, Brooklyn 6, N. Y.
425 North Michigan Avenue, Chicago 11, Ill.
605 Third Street, San Francisco 7, Calif.

PFIZER QUALITY

SPECIFY **PFIZER** VITAMINS

*Manufacturing Chemists for Over 100 Years*

VITAMIN A ACETATE • VITAMIN A PALMITATE • ASCORBIC ACID U. S. P. • THIAMINE HYDROCHLORIDE U. S. P. • THIAMINE MONONITRATE
RIBOFLAVIN U. S. P. • NIACIN U. S. P. • NIACINAMIDE U. S. P. • PYRIDOXINE HYDROCHLORIDE • CALCIUM d-PANTOTHENATE • VITAMIN $B_{12}$

OUR CLIENTS
NEED YOUR PRODUCTS!

. . . . And you need our services! Thompson-Hayward can provide immediate representation through 90 trained salesmen who cover the entire Mid-West. Thousands of customers are ready to buy because they are accustomed to Thompson-Hayward's top quality products and quick, convenient delivery through 18 strategically located warehouses. Get in touch with Thompson-Hayward today for quick distribution, more sales, higher profits.

HERE ARE A FEW OF THE COMPANIES WE REPRESENT

CARUS CHEMICAL COMPANY, INC.
Potash Permanganate
CHURCH & DWIGHT COMPANY, INC.
Soda Bicarbonate
DORWARD & SONS COMPANY
Fish Oils
KEASBEY & MATTISON COMPANY
Magnesium Carbonate
ESTON CHEMICALS, INC.
Methyl Chloride, Sulphur Dioxide, Freon

THOMPSON-HAYWARD CHEMICAL COMPANY
OPD-5
KANSAS CITY, MISSOURI
MINNEAPOLIS, OKLAHOMA CITY, SAN ANTONIO, CORPUS CHRISTI, DES MOINES, DAVENPORT, NEW ORLEANS, N. LITTLE ROCK, HOUSTON, DALLAS, WICHITA, MEMPHIS, CHICAGO, OMAHA, DENVER, TULSA, ST. LOUIS



FIRSTOLINE CHEMICALS

NICKEL FORMATE

ANTIMONY OXIDE

Titanium Dioxide • Zinc Carbonate
Antimony Regulus

CADMIUM OXIDE

Cadmium Carbonate • Cadmium Acetate

CHROMIC ACID • BICHROMATES
AMMONIUM BICARBONATE
AMMONIUM CHLORIDE
CAUSTIC POTASH
SODA ASH

POTASSIUM PERMANGANATE

INDUSTRIAL CHEMICALS
afc
SOLVENTS PIGMENTS

AMERICAN FIRSTOLINE CORPORATION
420 LEXINGTON AVE., N. Y. 17, N. Y. MU-3-3203 CABLE ADDRESS: FIRSTOLINE



Prompt deliveries INDUSTRIAL CHEMICALS

• SODIUM CYANIDE 96-98%
1 oz. Eggs and Powder
• POTASSIUM CYANIDE 96-98%
Granular and Powder
• COPPER CYANIDE 70-71%
• ZINC CYANIDE 55-56%
• NICKEL FORMATE
• COPPER SULPHATE

Place your order NOW!

You will then be sure of DEPENDABLE DELIVERIES at specified dates, without any interruptions to your production schedule. Continuous deliveries are assured by shipments from warehouse stocks at convenient shipping points.
Purity and uniformity rigidly maintained.

Our representative will call to discuss your 1951 contract requirements.

Philipp Brothers Chemicals, Inc.
37 WALL STREET • NEW YORK 5, N. Y. • HAnover 2-4676
Phibro
BOSTON 10, MASS. • PORTLAND, CONN.
PROVIDENCE 3, R.I. • PHILADELPHIA 6, PA.
BALTIMORE 1, MD.
Cable Address: PHIBROCHEM NEW YORK

# Heavy Chemicals

Chemical index advanced to 236.1 last week from 234.8 in the preceding period. The upward revisions aside from cadmium and quicksilver were confined to the lead, molybdenum and tin salts. According to trade reports, quicksilver is tagged for higher prices as late cables indicated a sharp advance in replacements. The increased prices for lead acetate, nitrate and peroxide were not surprising in view of the recent uprising in the metal. The wide fluctuations in tin made it difficult to establish a base price and the close revealed only a fractional advance in tin sulphate and a decline in the oxide. Higher prices were named for sulphur chloride by some producers.

Supplies of every heavy tonnage acid have tightened during the past month. Muriatic and sulphuric are in definitely short supply at present with prices of the latter showing tendency to advance. Glacial acetic acid was priced higher by some producers. Chlorine continued exceedingly short with carbon tetrachloride in a critical supply condition. Considerably more tonnage of soda ash and caustic soda were moved last month than in October and December prospects favor an additional increase.

In order to conserve copper for the arms program and federal stockpile, NPA has cut the use for civilians by 15 percent effective January 1. The degree will go into force simultaneously with a 35 percent cut previously ordered in the civilian use of aluminum. On the other hand, manufacturing firms have been authorized to increase cobalt use in December for civilian goods to 50 percent of their average consumption in the first half of 1950. The limit was 30 percent in November.

Paper production based on a percentage of six-day capacity was 102.8 percent for the week ending November 25, according to the American Paper and Pulp Association. This compared with 106.8 in the preceding week and 94.5 for the corresponding week in 1949.

*Production figures appearing below, unless otherwise designated, are from the Bureau of Census, Department of Commerce and from the Chemical Division of the Tariff Commission.*

**Bauxite**—Mine production in the United States declined 21 percent to 283,750 tons (dried equivalent) in the third quarter of 1950, according to the Bureau of Mines. During the third quarter a large producer was reported to be exercising an option of using ore from the Furricane Creek stockpile. Another resumed operations in Georgia, but output from Alabama and Georgia totaled only 3 percent of domestic production. Imports amounted to 604,214 tons. Exports totaled 9,465 tons all destined to Canada.

**Carbon Bisulphide** — Output increased in September to 36,605,493 pounds from 35,901,728 in the preceding month.

**Carbon Dioxide**—September occasioned a seasonal falling off in production, the total was 11,706 tons of liquid and gas, against 13,773 in August and 11,669 tons in September 1949. September production of solid, dry ice, amounted to 42,148 tons, compared with 53,091 tons in the preceding month and 37,667 tons in September last year.

**Carbon Tectrachloride** — Supply situation remained definitely tight and described as critical by some of the producers. Shipments are under voluntary allocation and no easement is in sight for this year or well into 1951. September production amounted to 15,196,517 pounds, compared with 15,318,300 in August.

**Chlorine**—Market situation has shown no sign of improvement. Demand is far enough ahead of production to keep the supply critically short and it looked as though this condition might continue indefinitely. The export movement in August amounted to 1,888,675 pounds including 1,683,950 pounds to Canada.

**Copper Sulphate** — Industrial demand was sustained at an abnormally high level and some inquiry for agriculture reached the market from the peanut growing states. Production is practically sold through February with sales carrying the price at time of shipment. Export inquiry was active from Central and South American countries and also from the Mediterranean area. Some sales have been consumated at El Paso to assist Mexican mining operations.

**Fluorspar**—Production and shipments of fluorspar of domestic origin of all grades were 88,038 and 102,255 short tons, respectively, in the third quarter, increases of 24 and 28 percent over the preceding quarter, according to the Bureau of Mines. Of the shipments of metallurgical-grade fluorspar in the third quarter, 51,853 tons were from Illinois and Kentucky and 12,197 tons from Arizona, Colorado, Nevada, New Mexico, and Utah. Of the shipments from Illinois and Kentucky in the third quarter, 31,348 tons were shipped by barge on the Ohio River, compared with 17,310 tons in the previous quarter.

Consumption of fluorspar was 102,757 tons in the third quarter, compared with 107,988 tons in the previous quarter. Stocks of fluorspar at consumers' plants (137,050 tons) on September 30 were 47 percent more than those on June 30 but stocks at mines (16,192 tons) were 47 percent smaller.

**Glauber's Salt** — September production amounted to 17,143 tons, compared with 16,288 in the preceding month and 12,548 tons in September, 1949.

**Lead Acetate**—Priced higher at 22c. per pound for crystals and 23c. for granular and powdered in barrels f.o.b. New York. Kegs of 100 pounds each command a premium of 4c. per pound over the barrel price.

**Lead Nitrate**—Advanced 2c. per pound to 22c. in carlots and 22¼c. in smaller quantities. Higher producing costs occasioned by recent advance in the metal was responsible for the upward revision. Lead peroxide was also higher at 41c. to 43c. per pound, depending upon quantity.

**Nickel Sulphate**—Supply exceedingly tight with DO orders reducing stocks for civilian use. Producers are allocating supplies in an attempt to keep shipments on an equitable basis.

**Potash, Caustic**—Remained in tight supply with production increasing but too slow ot have much effect on the market to date. Potassium carbonate about in the same condition and expected to improve with the restoration of full caustic production.

**Soda ash**—Shipments were of better volume at the beginning of December than a month ago. The supply remained short with the outlook favorable to gradual improvement. Export figures released for August show a total of 6,720,577 pounds including 5,795,117 to Mexico.

**Soda, caustic**—Tonnage rolling from plants increased during November and further increases are expected this month. The market position continued tight with the dry forms tighter than the liquid. Exports of solid during August amounted to 17,859,666 pounds including 10,851,525 pounds to Argentina. Exports of liquid were 5,344,015 pounds including 2,513,967 pounds to Canada.

**Sodium Silicate**—Production increased during September. The total output of soluble silicate glass, liquid and solid amounted to 37.707 tons compared with 32,278 in August and 37,159 tons in September 1949.

**Sulphur Chloride** — Priced higher at 3½c. per pound for drums in carlots; 4¼c. in l.c.l., and 3¼c. per pound in tankcars, freight equalized with recognized competitive points by one of the producers.

**Tin Salts**—Variations in the metal did not exert much influence on prices last week. Sulphate stannous was up ¾c. to $1.2175 to $1.2375 per pound. Tin oxide was lower at $1.39½. These prices are based on tin at $1.44 per pound.

## Acids

**Acetic**—Glacial stocks definitely tight at the turn of the month with market firm and demand active. September production

For Late Market Developments, See Page 4

## *Market Trends*

**Prices Advanced**

Cadmium, 15c. per lb.
Lead acetate, 1c. per lb.
nitrate, 2c. per lb.
peroxide, 1c. per lb.
Molybdenum trioxide, pure, 10c. per lb.
tech., 10c. per lb.
Quicksilver, $2.50 per flask.
Tin metal, 1c. per lb.
sulphate, ¾c. per lb.

**Prices Reduced**

Tin oxide, 4½c. per lb.

**Comparative Price Indexes**

(100=August 1, 1914)

*General Chemicals*

| Last week | Prev. week | Last month | Dec. 30, 1949 | Dec. 2, 1949 |
|---|---|---|---|---|
| 236.1 | 234.8 | 234.2 | 216.4 | 216.4 |

*Acids*

| Last week | Prev. week | Last month | Dec. 30, 1949 | Dec. 2, 1949 |
|---|---|---|---|---|
| 125.1 | 125.1 | 124.4 | 121.8 | 121.8 |

*(For Current Prices see Page 9)*

COLUMBIA

CALCIUM CHLORIDE

FLAKE
100 lb. and 25 lb. Moisture Proof Paper Bags

PITTSBURGH PLATE GLASS COMPANY
COLUMBIA CHEMICAL DIVISION
FIFTH AT BELLEFIELD • PITTSBURGH 13, PA.
BOSTON • CHARLOTTE • CHICAGO
CINCINNATI • CLEVELAND • MINNEAPOLIS
NEW YORK • PHILADELPHIA • PITTSBURGH
ST. LOUIS

COLUMBIA CHEMICALS

PAINT • GLASS • CHEMICALS • BRUSHES • PLASTICS

PITTSBURGH PLATE GLASS COMPANY

FINEST QUALITY

BICARBONATE OF SODA
SAL SODA (Carbonate of Soda Crystals)
MONOHYDRATE OF SODA

CHURCH & DWIGHT CO., Inc.
70 PINE STREET Phone Digby 4-2181 NEW YORK 5, N. Y.

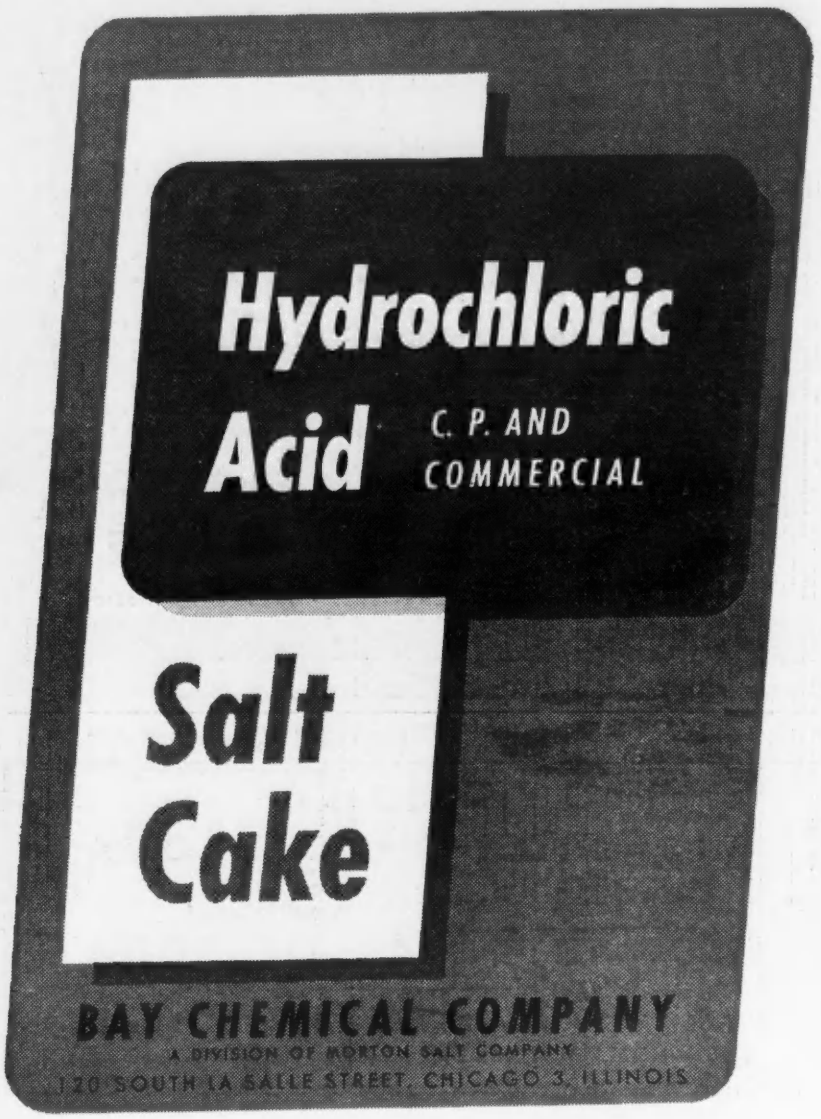
*The Much-Abused Word...*

"SERVICE" has been used so much and so casually that often its real meaning is lost or the word supplants the deed. With us, it embodies many factors and our basic policy is to consider all. Quality of product is permanent. Prices and deliveries must conform to the idea, and we offer all our research facilities—in confidence—to any Company or individual interested in new products in our field or in developing new uses.

OLDBURY
ELECTRO-CHEMICAL COMPANY

*Plant and Main Office:*
NIAGARA FALLS, NEW YORK

*New York Office:*
19 RECTOR STREET, NEW YORK 6, N. Y.




of acetic acid amounted to 38,245,968 pounds of synthetic, compared with 39,861,844 in August. The natural output amounted to 1,767,027 pounds, against 1,730,693 in the preceding month.

**Chromic**—Supply conditions tightened appreciably over the turn of the month. Demand for plating, including DO orders, has left production under considerable pressure.

**Muriatic**—No easement in the supply situation. Consuming demand exceedingly heavy and taxing current production. Market firm but unchanged in price.

**Phosphoric**—Total production in September amounted to 131,167 tons including 66,119 tons made from phosphorous and 65,048 made from phosphate rock. The August total was revised to 136,187 tons and in September last year 119,689 tons were produced.

**Sulphuric**—Demand has kept ahead of production leaving the supply situation definitely tight. Consumption for the year is running substantially ahead of 1949. An advance in prices at the turn of the year would not be surprising to the trade.

## Nonferrous Metals

**Cadmium**—Priced higher at $2.55 per pound for ingots or sticks delivered. Stocks were exceedingly short over the month of November with demand active and leaning toward expansion.

**Cobalt**—Consumption of cobalt by industrial consumers continued its upward trend for the third consecutive quarter to establish a new high of 2,126,138 pounds in the third quarter of 1950, a gain of 22 percent over the preceding quarter, according to the Bureau of Mines. In fact, consumption of cobalt in the first nine months of 1950 (5,448,518 pounds) was nine percent greater than in the entire year 1948, when for the first time it exceeded 5,000,000 pounds. Much greater use of cobalt for high-temperature alloys and smaller gains in usuage for cemented carbides, alloy hard-facing rods and materials, and ground coat for procelain enamel were chiefly responsible for the record consumption in the third quarter. Imports of cobalt metal plus production in the United States were again inadequate for the larger demand and the deficit was met by withdrawals from suppliers' stock, which declined 80 percent from the preceding quarter. However, stocks of metal held by consumers gained 32 percent, and metal in transit to consumers on September 30 increased to 284,000 pounds compared with 269,000 pounds on June 30. Output of cobalt oxide in the third quarter declined 20 percent but imports were 22 percent greater; sales were up 36 percent, however. Production and sales of cobalt driers were 25 and 40 percent, respectively, greater than in the preceding quarter, and sales of cobalt salts were up 35 percent.

**Copper**—Maintained a strong position with buying interest active. November sales estimated at 100,000 tons. Electrolytic priced at 24½c. per pound delivered Valley or Midwest basis.

Production of refined copper in October totaled 110,455 tons in the United States, according to the Copper Institute. September output was 111,842 tons. Deliveries to fabricators amounted to 121,806 tons, compared with 119,529 in the preceding month. Daily average production in October was 3,929 tons, against 3,984 in September. Refined stocks on October 31 were 56,945 tons, compared with 58,748 on September 30 and a low of 50,350 tons recorded on June 30. Production of refined copper outside the U. S. was 105,237 tons in October, against 93,507 in September. Stocks on October 31 were 135,712 tons, compared with 133,379 on September 30.

**Lead**—Stocks continued short with demand active. It was stated that only a small amount of metal is left available for December shipment and January books have not been opened to date. The common grade was priced at 17c. per pound New York and at 16.80c. St. Louis basis.

**Nickel**—British Treasury has exempted from general ad valorem duty nickel catalist residues by order S.I. 1950 No. 1797 effective November 13.

**Quicksilver**—Market strong with tendency upward. Only a few small lots available at the close of the week at $110 per flask. Foreign cables indicate replacements at $125.

*San Francisco.*—The market remains unchanged with interest high and stocks limited. Metal quoted $109 per flask.

**Silver**—Opened the month steady with demand fair. The market for bullion at New York was 80c. per ounce.

**Tin**—Irregular price changes featured the market last week. Unfavorable developments in Korea were reflected in higher prices at London and Singapore.

DISTRIBUTOR FOR

CELANESE CHEMICALS

Reg. U. S. Pat. Off.

ACETIC ACID

*Tank Wagons... Drums... Barrels... Carboys*

FORMALDEHYDE

*Tank Wagons... Drums*

ACETONE

*Drums Only*

n-PROPANOL ISOBUTANOL
CELANESE SOLVENTS 203 & 601
PROPYLENE GLYCOL

*Drums Only*

Washine
INDUSTRIAL CHEMICALS

WASHINE NATIONAL SANDS, INC.
LONG ISLAND CITY, N. Y.—STILWELL 4-0500
*Plant*
LODI, NEW JERSEY, PRESCOTT 7-4141

CONTACT WASHINE FOR YOUR 1951 CHEMICAL REQUIREMENTS

The prevailing price at the close was $1.36 per pound for grade A.

Zinc—Galvanizers are still experiencing difficulty in securing stocks owing to the tight market supply position. Demand continued active with the price for prime western firm at 17½c. per pound East St. Louis basis.

Average daily rate of zinc production from domestic mines in September remained virtually unchanged from the August level, according to the Bureau of Mines. Total September zinc output, in terms of recoverable metal was 54,269 short tons compared with 56,114 tons in August. The production of zinc in States East of the Mississippi River dropped 8 percent from the August total. In Arkansas, Kansas, Missouri and Oklahoma the combined output dropped 1 percent owing to the shorter working period in September. The average daily rate of production showed little change in Kansas and Missouri but advanced nearly 5 percent in Oklahoma.

## ECA Announces Additional Procurement Authorizations

Among the new procurement authorizations issued to Marshall plan countries by the Economic Cooperation Administration during the period November 24 to 30 were the following:—

To Austria — $200,000 for copper, $100,000 for chemicals, $75,000 for chemicals other than alcohol, $75,000 for medicinal preparations and $250,000 for nonmetallic minerals from the United States.

To Belgium-Luxemburg—$800,000 for medicinal preparations, $300,000 for nonmetallic minerals, and $1,500,000 for petroleum from the United States; $1,500,000 for nonferrous ores and concentrates from Canada; $1,500,000 for the same from Latin America; $2,517,000 for petroleum from Latin America and the Middle East.

To Denmark—$800,000 for tinplate and terneplate from the United States.

To Germany—$1,000,000 for copper, $600,000 for nonmetallic minerals, and $400,000 for chemicals from the United States.

To Greece—$300,000 for medicinal preparations from the United States.

To Netherlands—$327,000 for petroleum from Latin America.

To Norway—$500,000 for petroleum from the United States and $2,000,000 for the same from Latin America.

To Trieste—$210,000 for soybean oil, $80,000 for tallow and other animal fats and oils and $16,000 for gum rosin from the United States.

## Fluorspar Shipments In 1949 Declined 29%

Shipments of fluorspar from mines in the United States, which established a peacetime record in 1948, declined 29 percent in 1949, according to the Bureau of Mines. Imports, which reached an all-time high in 1948, dropped 14 percent. Domestic shipments in 1949 were the smallest since 1940, but imports have been exceeded by only two other years.

Production of finished fluorspar also declined substantially. The smaller demand for fluorspar in 1949 was caused largely by a 15-percent decline in consumption, which resulted chiefly from a strike in the steel industry and from a lower level of operations in the hydrofluoric-acid and glass industries, and partly by an 11-percent reduction in consumers' inventory.

Salient statistics of fluorspar in the United States in 1949 as compared with 1948 in short tons follow:

| | 1949 | 1948 |
|---|---|---|
| Shipments from domestic mines. | 236,704 | 331,749 |
| Foreign trade: | | |
| Imports for consumption.. | 95,619 | 111,626 |
| Exports | 802 | 666 |
| Consumption | 345,221 | 406,269 |
| Industry stocks at end of year: | | |
| Domestic mines[1] | 37,039 | 37,344 |
| Consumers' plants | 130,621 | 146,869 |
| Total | [2]167,660 | 184,213 |

[1] Finished fluorspar only.
[2] In addition, importers held 11,000 tons in 1949.

## Philadelphia Chemical Club Xmas Party Slated Dec. 13.

The Chemical Club of Philadelphia will hold its annual Christmas party December 13 at the John Bartram hotel in that city. Cocktails are scheduled at 6:30 p.m., with dinner and a floor show following.

### Carpenter Steel Shifts Staples

William R. Staples, formerly West Coast representative, has been appointed assistant to the manager of sales, alloy tube division of the Carpenter Steel Company, Union, N. J. Paul E. Kelly takes over West Coast duties formerly handled by Staples.

## Pittsburgh ACS to Honor W. A. Hamor December 21

The Pittsburgh section of the American Chemical Society will present an award for "outstanding service to chemistry" to William A. Hamor, assistant director of the Mellon Institute, December 21. In addition to his connection with the institute, Mr. Hamor has edited scientific publications and has served on the scientific personnel committee of the Atomic Energy Commission.

## *Trade Briefs*

**National Production** Authority has appointed John Peckham director of its compliance division.

**Hilton-Davis** Chemical Company, a division of Sterling Drug, Inc., Cincinnati, Ohio, has added Robert L. Dittmar, formerly with the Clopay Corporation of that city, to its ink research staff.

**Calco Chemical** Division, American Cyanamid Company, Bound Brook, N. J., has appointed Dr. Glenn S. Watson resident technical director for its Marietta and Willow Island plants.


**GEORGE F. SMITH SALES & CHEMICALS CORP.**

*CHEMICALS*

Specializing in

ARSENIC — COPPER SULPHATE — CRESYLIC ACID
SODIUM CYANIDE — NICKEL SULPHATE — STEARATES
CERIUM-LANTHANUM-THORIUM and other RARE EARTH SALTS and METALS

60 East 42nd Street, New York 17, N. Y.

Cable Address: Geosmith, N. Y.
Telephones: MUrrayhill 7-5651-2-3-4

**SILICATE OF SODA**

40° and 60°
EXPORT — DOMESTIC
TURPENTINE - LINSEED OIL - MINERAL SPIRITS
CHAS. L. READ & CO., Inc., 120 Greenwich St., New York 6, N. Y.
Telephone: WOrth 4-1131

Back before the turn of the century, Stauffer first produced Sulphuric Acid in lead chambers with a resulting acid of 65% in strength. Concentration of this product to higher strengths such as 66°Be and 98% was both difficult and expensive.

With the advent of the "contact process" of Sulphuric Acid manufacture, Stauffer converted to this more efficient method, and now has five modern Sulphuric Acid plants in large consuming centers. Stauffer Sulphuric Acid is available in any desired strength from 60°Be 77.67% to the highest concentrations of "fuming acid or oleum". Highest purity and uniformity is assured by the use of uncontaminated raw materials, such as 99½% pure sulphur (brimstone), in a process which is accurately controlled.

In addition to the various acids, Stauffer makes a long list of industrial and agricultural chemicals. These products are fully described in a comprehensive 108-page catalog available upon request.

OTHER STAUFFER PRODUCTS

BHC (Benzene Hexychloride)
Borax
Boric Acid
Boron Trichloride
Carbon Bisulphide
Carbon Tetrachloride
Caustic Soda
Chlordane
Chlorine
Citric Acid
DDT (Dichloro Diphenyl Trichloroethane)
Ethylene Trithiocarbonate
Silicon Tetrachloride
Sodium Hydrosulphide
Sulphur Chloride
Tartaric Acid
Toxaphene (Chlorinated Camphene)
Textile Stripper
Titanium Tetrachloride

Stauffer CHEMICAL COMPANY

420 Lexington Avenue, New York 17, N. Y. • 221 North LaSalle Street, Chicago 1, Illinois • 824 Wilshire Blvd., Los Angeles 14, California • 636 California Street, San Francisco 8, California • 424 Ohio Bldg., Akron 8, Ohio • Apopka, Florida • North Portland, Oregon • Houston 2, Texas • Weslaco, Texas

One Pound or a Carload
Albumens
ALWAYS UNIFORM
ALWAYS DEPENDABLE
Liquid or dried egg albumens —in every form for every industrial use. Write for samples and quotations.
LARGEST MANUFACTURERS of TECHNICAL EGG PRODUCTS
H. GARTENBERG & CO., Inc.
412-16 W. PERSHING RD.
CHICAGO 9, ILL.
Cable Address: Gartegg

EDIBLE — TECHNICAL
EGG ALBUMEN
For Every Purpose or Use
W. WALTER KOCH CO. 408 West 14th St., New York 14, N. Y.
ALgonquin 5-4020, 4021, 4022

OVER 40 YEARS OF PROGRESS
Natural BICHROMATES
BUY CROW MAIL
NATURAL PRODUCTS REFINING CO., JERSEY CITY 5, N. J.

UNION CHIMIQUE BELGE, S. A.
CHEMICAL SPECIALTIES
for the
TEXTILE INDUSTRY
DETERGENTS
DYEING ASSISTANTS
EMULSIFIERS
FINISHES
OILING
PREPARATION
SEQUESTERING AGENTS
WETTING AGENTS
Address all inquiries to
ELBERT & COMPANY, INC.
2 Broadway, New York 4, N. Y.
Cable Address: Elbertonia, New York Telephone: Digby 8-2670

# Textile and Leather Chemicals

Firm conditions continued to prevail in the textile and leather chemicals market last week. Demand was active for most materials with prices holding on a firm basis. Edible egg albumen was lifted sharply due to the increased cost of frozen whites. Acetic anhydride was raised with higher cost of acetic acid. Price index advanced 6.7 points.

Tight supply condition in bichromates eased slowly, with demand still greater than available stocks. Sodium hydrosulphite supplies were scarcer as production was affected by the difficulty of obtaining zinc.

Consuming demand for sizing materials continued in good volume for prompt delivery. Corn dextrin and starch and potato starch were in excellent request against current contracts.

The government announced last week that purchases of 100,000,000 pounds of wool will be made in the open market by June 30 to meet emergency reserve requirements. As a result of the Melbourne decision rejecting the plan to pre-empt wool for United States military stockpiling from Australian, New Zealand and South African auctions, some 30,000,000 pounds of wool will be bought by the Commodity credit Corp. from American merchants for processing into military clothing and the balance through ordinary trade channels as required by contractors.

Cattle hide leather production in September totaled 2,083,000 hides, compared with 2,300,000 hides in August, according to Tanners Council. Calf and whole kip skins amounted to 930,000 against 1,052,000; goat and kid skins, 2,832,000 compared with 3,260,000 and sheep and lamb skins, 2,862,000 against 3,373,000.

The 1951 cotton crop will be supported at 90 percent of parity—the same level as this year it was announced by the Department of Agriculture. The farm law permits supports as low as 75 percent of parity, but the need for a large production kept the support at the current level. The support price will be determined on the basis of the August 1 parity price of cotton. This year' rate averaged 29.45 cents per pound for the base grade.

Production of woolen and woven fabrics for the third quarter of the year totaled 116,000,000 yards, 4 percent above the second quarter and nine percent higher than the third quarter in 1949, according to Bureau of Census.

## Market Trends

**Prices Advanced**

Acetic anhydride, 1c. per lb.
Egg albumen, edible, 8c. per lb.

**Prices Reduced**

None

**Comparative Price Indexes**

(1926=August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Dec. 2, 1949 |
|---|---|---|---|---|
| 254.5 | 247.8 | 247.9 | 186.0 | 289.4 |

*(For Current Prices see Page 9)*

## Chemicals

**Acetic Anhydride** — Prices were advanced 1c. to 13½c. per pound, tankcars; 15c. drums, carlots and 15½c. lesser quantities, effective December 1. Production of acetic anhydride amounted to 83,012,000 pounds during September, compared with 77,963,000 pounds in August, according to the U. S. Tariff Commission.

**Bichromates** — Active consuming demand continued to feature this market. Production has improved but supplies were still inadequate to cover current demand. Prices were unchanged and firm.

**Sodium Acetate**—Business was reported good for delivery during the balance of the year. Inquiry also was keen for early next year requirements. Prices were unchanged and firm.

**Sodium Hydrosulphite** — Tight supply condition continued to affect business. Demand for domestic and export delivery continued keen. Production was restricted owing to scarcity of zinc. Prices were maintained at current levels.

**Sulphonated Oils**—Consuming inquiry was spotty, as users limited demand to actual needs. Prices were firm for all varieties, reflecting the high cost of basic oils and fats.

## Sizing Materials

**Blood Albumen**—Active demand kept output of dried soluble blood sold ahead and exceeded the supply. Blood albumen also was in steady request, though makers were able to cover requirements. Quotations were unchanged and firm.

**Corn Dextrin**—Consumers continued to absorb the output, which kept deliveries behind schedule. Market was strong. Producers accepted orders only at the price on the day of shipment. All grades were quotably unchanged and steady.

**Corn Starch**—Withdrawals against orders were active, keeping producers inventories at low level. Prices were firm and unchanged. Demand for prompt needs was reported excellent. Orders were only booked at the price on the date of shipment. Visible corn supply was increased 3,044,000 bushels to 45,827,000 bushels for the week ended November 25, compared with 42,040,000 bushels for the corresponding week last year, according to the Chicago Board of Trade.

**Egg Albumen**—Increased cost of frozen whites and scarcity of stocks on spot, further stiffened the market. Prices of edible flake were lifted to $1.40 to $1.42 per pound, as to quantity and powder to $1.44 to $1.46, same basis. Trading was fair, chiefly for actual requirements. Good quality technical albumen was unchanged at 78c. to 80c. per pound, according to quantity, while off grade material was available at 10c. to 15c. per pound less. The discontinuance of price support on dried egg powder, December 31, had little effect on the market to date, but the trade is in a quandary as what will take place after the turn of the year. However, the government will support the egg market by purchases of shell eggs during 1951. A record egg lay and the largest October production of all time are reported by the Bureau of Agricultural Economics. The 4,000,000,000 eggs laid in October topped production a year ago by 6 percent and the 1939-48 average by 37 percent. The nation's farm laying flock averaged 360,300,000 layers in October—up 3 percent from a year ago and 8 percent from the 1939-48 average.

**Egg Yolk**—Prices of yolk were unchanged, but were steady, reflecting the higher cost of edible albumen. Domestic yolk was maintained at $1.14 to $1.16 per pound, depending upon quantity. Chinese yolk was unchanged and firm at 87c. to 90c. per pound, duty paid, spot delivery. Business was reported moderate for both grades for prompt requirements.

**Potato Starch** — Steady demand was noted for moderate quantities for prompt requirements. Prices were maintained at prevailing levels. Carlots were quoted at 5c. per pound, f.o.b. mills, Maine and Idaho. Production in Maine has increased to about normal due to improved potato deliveries to mills. Supplies on the spot were well held at 7½c. to 7¾c. per pound, ex warehouse, depending upon quantity.

**Sago Flour** — High cost of shipments from the Far East has reduced consuming interest in this commodity. Prompt and forward shipments were firm at 7.30c. per pound, ex dock. Stocks on the spot were light and held at 7¾c. to 8c. per pound, as to quantity.

**Tapioca Flour**—Business was fairly active for prompt requirements. Prices were steady here and at primary centers. Offers for shipments from Brazil and Siam were closely held. High grade Brazilian was unchanged at 7½c. to 7¾c. per pound; medium, 7c. to 7¼c., and low, 6¼c. to 6¾c. ex warehouse, depending upon quantity.

## Tanning Materials

**Mangrove Bark**—Business was reported slow. Offers from South America were fairly liberal at unchanged quotations. Interest in African bark was negligible due to the higher cost than the South American. Freight rates on shipments of bark from Africa will be advanced 15 percent effective January 1.

**Myrobalans**—Trading was reported inactive. Prices for shipment were unchanged and fairly steady for all grades.

**Quebracho Extract**—Conditions in this market remained steady, despite light trading. Shipments from primary sources were maintained at current levels.

**Valonia**—This market was steady instead of easy as inadvertantly stated last week. Beards were held at $79 to $80 per ton, exdock and cups at $56, same basis.

**Wattle** — Drought conditions have reduced production in Africa. Supplies were low and offers for shipment scarce for both bark and extract. Prices were strong. Freight rates for shipment will be advanced 15 percent effective January 1.

*For Late Market Developments, See Page 4*

## Antimony Mine Output During 1949 Down 75%

A general business recession in the latter part of 1949 and consumer resistance to high prices of antimony resulted in a downward trend of the antimony industry from 1948, according to the Bureau of Mines. Decreases in the primary antimony industry were:—Domestic mine output, 75 percent; domestic smelter production of metal, oxide, and sulphide, 43 percent; consumption, 25 percent, and industry stocks, 36 percent. Imports of ore, metal, and needle antimony decreased 45 percent. Secondary production was down 16 percent.

Salient statistics for antimony in the United States in 1949 as compared with 1948 follow:—

| | 1949 | 1948 |
|---|---|---|
| Production of primary antimony: | | |
| Mine (antimony content) . short tons. | 1,636 | 6,489 |
| Smelter (antimony content). short tons. | 8,099 | 14,308 |
| Production of secondary antimony ..... shor tons. | 18,061 | 21,592 |
| Imports for consumption: | | |
| Antimony in ore ..... short tons. | 7,473 | [2]13,464 |
| Needle or liquidated antimony ..... short tons. | 81 | 533 |
| Metal ..... short tons. | 1,853 | [2]3,201 |
| Exports of antimony ore and metal ..... short tons. | 485 | 327 |
| Consumption of primary antimony[3] ..... short tons. | 11,530 | 15,455 |
| Average price of antimony at New York:[4] | | |
| Chinese (nominal) ..... cents per lb. | [1] .. | [1] ... |
| American ..... cents per lb. | 38.73 | 36.67 |
| World production[5] ... short tons. | 37,500 | 45,500 |

[1] Data not available.
[2] Revised figure.
[3] Antimony recovered chiefly as antimonial lead at primary lead refineries from domestic and foreign silver and lead ore not included.
[4] American Metal Market.
[5] Exclusive of U.S.S.R.

## Kulow Forms Own Firm

Roman W. Kulow has formed his own business as a manufacturers agent dealing in chemicals and chemical specialties at 24 East 28th street, New York 16. Telephone number is LExington 2-0457. Mr. Kulow was previously technical sales-service representative for the textile chemicals department of Monsanto Chemical Company, St. Louis, Mo. His earlier affiliations included Stauffer Chemical Company and the Bakelite Corporation.

## DuPont 'Cordura' Rayon Post to Millard Gamble

Millard G. Gamble, 3rd, a salesman of "Cordura" high-tenacity rayon for the last nine months, has been made assistant sales manager for that product, it has been announced by E. I. duPont de Nemours & Co., Wilmington, Del. Mr. Gamble joined duPont in 1945, and on April 1, 1946, he became a salesman in the rayon division's district office at Charlotte, N. C. He was transferred to the Providence, R. I., district in 1949, and early this year he was transferred to Wilmington as a salesman of "Cordura."

## Stokes Machine Launches Plant Expansion Program

The F. J. Stokes Machine Company, Philadelphia, has launched a $700,000 expansion program. Adding one-third in space to the present plant, the new construction is scheduled for completion early in 1951. Among the machines designed and built by Stokes are freeze-drying and chemical processing equipment; pharmaceutical processing equipment; tabletting, powder metal and plastics molding presses; water stills and special machinery, and high vacuum pumps and vacuum gages.

### Reheis Co. Enlarges Laboratory

Reheis Company, Berkeley Heights, N. J., has enlarged its research laboratories. The new addition, devoted primarily to development and utilization of alumina gels and new aluminum salts, is under the direction of P. M. Brown, jr.


COPPER SULPHATE 99%
UREA CRYSTALS 46%
UNITED STERLING CORP.
37 E. 28th St., New York City MU 9-2686

METOL
Monomethylparaminophenol Sulphate
Registered Trade-Mark
TANNIC ACID • GALLIC ACID
(U.S.P. and Technical Grades)
PYROGALLIC ACID • HYDROQUINONE
ZINSSER & COMPANY, Inc.
HASTINGS-ON-HUDSON, NEW YORK

WE WILL BUY YOUR
Surplus Chemicals
SOLVENTS WAXES OILS
RESINS DRUGS ETC.
WIRE OR PHONE
FOR IMMEDIATE ACTION!
All offers held in strictest confidence.
Barclay CHEMICAL COMPANY, INC.
77 VARICK STREET NEW YORK 13, N.Y. • WO 4-5120

Mutual Bichromates
SODIUM BICHROMATE
POTASSIUM BICHROMATE
MUTUAL CHEMICAL CO. OF AMERICA
270 MADISON AVE., NEW YORK 16, N. Y.
MUTUAL CHEMICAL CO OF AMERICA NEW YORK N.Y. SINCE 1845 REG U.S. PAT. OFF.

Swanson EVER FRESH BRAND
Hen Egg ALBUMEN
EDIBLE • TANNERS YOLK • TECHNICAL
C. A. SWANSON & SONS Albumen Division
General Offices • Omaha, Nebraska

STARCHES · SIZES ADHESIVES
POTATO STARCH & DEXTRINES
TAPIOCA FLOUR & DEXTRINES
SAGO FLOUR – RICE STARCH – WHEAT STARCH
LOCUST BEAN GUM – CASEIN – ANIMAL GLUE
AMERICAN KEY PRODUCTS, Inc.
WOrth 2-7669 15 PARK ROW, NEW YORK 7, N. Y.

KESSCO PRODUCTS
CHEMICAL SPECIALTIES
PLASTICIZERS
Cellulose, Vinyls,
Rubber, Resins
SOFTENERS
Leather, Rubber,
Textile, Paper
EMULSIFIERS
Cosmetics, Foods,
Pharmaceuticals,
Petroleum, Agriculture
Insecticides
KESSLER CHEMICAL CO., INC.
ESTABLISHED 1921
STATE ROAD and COTTMAN AVE. • PHILADELPHIA 35, PA.

MURIATE OF POTASH
62/63% $K_2O$ Also 50% $K_2O$

MANURE SALTS
20% $K_2O$ Minimum

SUNSHINE STATE POTASH
A PRODUCT OF NEW MEXICO U.S.A.

REG. U. S. PAT. OFF.

UNITED STATES POTASH CO., Inc., 30 Rockefeller Plaza, New York 20, N. Y.

Sulphate of Ammonia • Nitrogen Solutions • Ammonia Liquor
Anhydrous Ammonia • Arcadian* Nitrate of Soda • Urea
A-N-L* Fertilizer Compound

THE BARRETT DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N.Y.

Barrett NITROGEN

HEADQUARTERS FOR AMERICAN-MADE NITROGEN

*Reg. U. S. Pat. Off.

Seasons Greetings
And sincere hopes that we may all enjoy peace in the year to come

THE DICKERSON COMPANY
DREXEL BUILDING PHILADELPHIA 6, PA.

Basic Agricultural Chemicals of Quality...

KOLKER

DDT — DDT Insecticides
100% technical grade
Wettable Powders
Dust Concentrates
Emulsifiable Solutions

BHC — BHC Insecticides
Technical grade (36% gamma)
12% gamma Concentrates

2,4-D — 2,4-D Weed Killers
Acid
Sodium Salt
Butyl Ester
Isopropyl Ester
Ester and Amine salt solutions

2,4,5-T — 2,4,5-T Brush Killers
Isopropyl and Butyl Esters

Friendly technical assistance . . . strict quality control . . . on-the-dot shipments . . . these are a few of the reasons why Kolker has become one of America's leading manufacturers of agricultural chemicals. You are urged to call or write today for 1951 deliveries.

Plants in NEWARK, N. J. and HOUSTON, TEXAS

Kolker Chemical Works Inc.
80 LISTER AVENUE, NEWARK 5, N. J.
Manufacturers of Agricultural Chemicals

# Agricultural Chemicals

More producers advanced prices for DDT last week and it looked as though the market would be established at a higher selling level shortly although it is difficult to find a supplier who has stocks to offer at the higher prices named. Production of DDT as well as BHC has been seriously affected by the prolonged shortage of basic materials. In other directions of the pesticide group, cube root was higher and derris root lower with trading quiet. In packing-house byproducts, tankage was fractionally lower. Dried blood remained about steady and so did bone meal. No additional sales of hoof meal were reported. Menhaden meal continued quiet and unchanged in price. Some additional lots of castor pomace were available on the unit basis. Lower prices for crude sulphur were named in one producing quarter.

Normal superphosphate was firm with reports of higher prices heard at some of the Baltimore plants. A serious shortage has developed in the Southwest and there appeared to be a general tightening of stocks elsewhere. Coke-oven ammonium sulphate moved against contracts but there was no unusual demand for additional quantities for domestic use. Synthetic did not relax from its former tight position and no large quantities were available for export. Nitrogen solutions held a satisfactory degree of balance throughout the month. A large sale of phosphate rock to Japan has been consumated and some concern was expressed over the domestic movement due to the possibility of a cut back in superphosphate production as a result of the shortage of sulphuric acid. Potash production was sustained at capacity levels during November.

*Production figures appearing below, unless otherwise designated, are from the Bureau of the Census, Department of Commerce, and the Chemical Division of the Tariff Commission.*

## Nitrogenates

**Ammonium Nitrate**—Production heavily committed for the 1950-1951 season, supply situation definitely tight with prices firm. The August export movement of not especially specified material totaled 2,420,000 pounds including 720,000 pounds to Mexico, 714,000 to Costa Rico and 414,000 pounds to Guatemala. There were also 57,500 pounds of ammonium nitrate fertilizer exported.

**Ammonium Sulphate** — Coke-oven sulphate is moving against contracts with little demand for additional quantities. The supply outlook is favorable unless the government enters the market. Synthetic material is exceedingly tight for export at $45 in bulk and $49.50 in bags but producers appear to have no stock to offer.

August exports amounted to 156,460,880 pounds including 90,829,260 pounds to Japan, 12,398,240 to Spain and 24,659,000 pounds to the Philippine Republic.

**Sodium Nitrate** — Not unusually active although a seasonal tonnage was moved during November. Prices for the month remained steady both for domestic and imported.

**Tankage**—Prices weakened slightly under a relaxation in the feed demand. New York named $8.50 per unit of ammonia and Chicago $9.

## Phosphates

**Phosphate Rock**—Domestic demand for shipments held about steady with some concern expressed over the outlook owing to the possibility of a cutback in superphosphate production stemming from the tight position of sulphuric acid. It was pointed out, however, that demand for direct application may increase. It was stated that sales of 120,000 tons for December, January, February shipment to Japan have been completed. Freight rates to that country have advanced sharply of late.

**Superphospate**—Supply situation in normal getting tighter with each successive week, and stocks seriously short in the Southwest. Demand remained active with the major part of production under contract for the season. No price changes have been announced at Baltimore or Carteret but the undertone of the market is decidedly firm.

Exports of normal during August totaled 65,262,530 pounds including 32,511,560 to Poland and 26,548,970 pounds to Canada. August exports of concentrated were 1,106,838 pounds of which 732,100 pounds were destined to Canada.

### *Fertilizer Tag Sales: September**

| | Equivalent tons Sept. 1950 | Sept. 1949 | Jan.-Sept. 1950 |
|---|---|---|---|
| Virginia | 49,512 | 45,148 | 594,141 |
| N. Carolina | * | 74,044 | 1,529,970 |
| S. Carolina | 45,440 | 40,190 | 790,175 |
| Georgia | 60,583 | 67,042 | 1,024,243 |
| Florida | 97,026 | 98,482 | 730,596 |
| Alabama | 43,549 | 40,913 | 892,650 |
| Tennessee | 12,131 | 25,122 | 426,296 |
| Arkansas | 11,672 | 10,544 | 319,568 |
| Louisiana | 18,867 | 13,311 | 228,802 |
| Texas | 79,540 | 54,771 | 423,764 |
| Oklahoma | 10,846 | 8,011 | 121,951 |
| Total South | | 477,578 | 7,085,156 |
| Indiana | 34,540 | 17,985 | 685,798 |
| Kentucky | 22,961 | 15,830 | 476,794 |
| Missouri | 18,718 | 16,947 | 455,801 |
| Total Midwest | 73,219 | 50,762 | 1,613,393 |
| Grand Total | | 528,340 | 8,698,549 |

*Supplied by National Fertilizer Association.

### *Market Trends*

**Prices Advanced**
Cube root, 1c. per lb.

**Prices Reduced**
Derris root, 7c. per lb.
Sulphur, crude, $1.00 per long ton.
Tankage, 25c. per unit of ammonia.

**Comparative Price Indexes**
(100=August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Dec. 2, 1949 |
|---|---|---|---|---|
| 83.5 | 83.5 | 83.5 | 81.6 | 81.6 |

*(For Current Prices see Page 9)*

## Potashes

Domestic production held at capacity levels throughout the month of November. The availability of boxcars has been troublesome and at intervals the shortage has caused a delay in shipments from plants. Demand remained heavy and somewhat above output. Meanwhile, material from France, Germany and Spain has been purchased to satisfy additional requirements.

Britains consumption of potash for agricultural use has increased from 75,000 tons in 1939 to 234,000 tons for the year ending June 30, 1950, according to a paper recently read to the Newcastle section of the Society of Chemical Industry.

### Los Angeles Fertilizer Market

*Los Angeles.*—Trading has fallen off during the past week with little activity of note in the market. Blood meal is reported in tight supply and offerings of fish meal have been scarce.

Ruling prices were:—Ammonia nitrate, $69.94 per ton, domestic, f.o.b. Los Angeles. $71.55 per ton for Canadian material, f.o.b. Los Angeles. $58 per ton at source. Ammonia phosphate, $53 per ton for 16/20 grade. $77.50 per ton for 11/48 grade at source. Both Canadian material. Ammonia sulphate, $49 per ton bagged, f.o.b. Los Angeles. Canadian material $44 per ton at source. $2.50 less for bulk. Blood meal, $7-$7.25 per unit of ammonia at source. Bone meal, $70 per ton for domestic, steamed, 1/30 meal, f.o.b. Los Angeles. Calcium nitrate, $44.25 per ton, 15½ percent nitrate, c.i.f., Los Angeles Harbor. Fish meal, $126.75 per ton for 65 percent sardine, f.o.b. Los Angeles and San Diego. $123.50 per ton nominal for 60 percent tuna, f.o.b. Los Angeles and San Diego. $126 per ton for 70 percent Alaskan herring, f.o.b. Seattle. Nitrate of soda, $53 per ton in 100-pound bags, f.o.b. Los Angeles Harbor. $48 per ton in bulk. Potash muriate, 50½c. per unit in bulk, f.o.b. Trona. Potash sulphate, 95 to 98 percent $K_2SO_4$, 86c. per unit, f.o.b. Trona. Superphosphate, $23.70 per ton bulk, f.o.b. Los Angeles. $4 extra for bags. Ammoniated, $28 per ton in bulk, 3/16 grade, f.o.b. Los Angeles. $4 additional for bags. Triple, $68.50-$72 per ton bulk, 47 percent a.p.a., f.o.b. Los Angeles. Tankage, wet rendered, fertilizer grades, $5.35-$6 per unit of ammonia, f.o.b. producing plant.

## Pesticides

**BHC** — Supply position has remained tight over the past month with production held down by the shortage of benzol and chlorine. Output is heavily under contract for future shipment owing to the desire of distributors to have stocks on hand for the Spring movement. The tone of the market is definitely firm with the trend more upward than downward. Production in September amounted to 4,640,506 pounds, compared with 5,168,990 in August. The gamma isomer content in September was 618,798 pounds, against 690,347 in the preceding month.

**Calcium Arsenate**—Production of commercial in September amounted to 1,425 tons, compared with 4,460 in the preceding month.

**Cube Root**—Market situation seasonally quiet with stocks relatively tight and prices slightly higher for powdered 5 percent rotenone. Spot is priced at 27c. to 30c. per pound, works.

**Derris Root**—Trading quiet with sup-

*For Late Market Developments, See Page 4*

ply position comfortable and stocks available at 35c. to 38c. per pound works for 5 percent rotenone.

**DDT**—More producers have advanced the price to 42c. in carlots and 43c. per pound in less at the works and have lifted the formulation prices proportionately. The supply situation has remained exceedingly tight with output heavily sold ahead and producers experiencing a lot of difficulty in securing basic materials. September production totaled 4,136,665 pounds, compared with 5,252,372 in August.

**Lead Arsenate**—September production amounted to 1,098 tons. As there was only one plant operating during August, the Bureau of the Census could not give production figures.

**Pyrethrum**—Tanganyika's 1950 pyrethrum crop is forecast at 232 long tons, according to estimates made by the Territory's Department of Agriculture. This is considerably less than an earlier estimate of 360 tons.

## Sulphur

One of the producers has announced a price of $21 per long ton, $22.50 on board ship for domestic shipment, and $25 for export, effective November 30. Demand has shown no indication of easement, and production has continued under considerable pressure, which ha.. kept the supply position definitely tight.

## Barrett Appoints Tyson

The Barrett Division, Allied Chemical & Dye Corporation, New York, has appointed Robert M. Tyson to handle sales in northwest Georgia and eastern Tennessee of its line of direct application nitrogen materials. Mr. Tyson, who will operate out of Cartersville, Ga., was formerly employed by the U. S. Engineers and since 1944 has been in the hardware and farm implement business.

## *Trade Briefs*

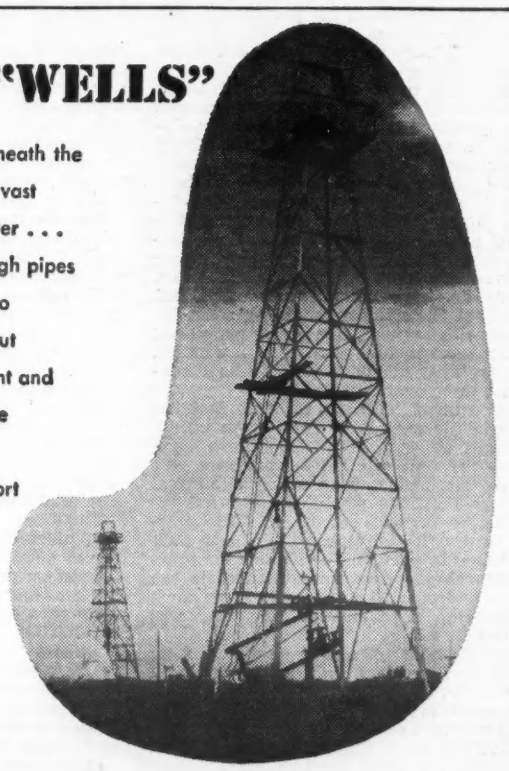
**Arkell & Smiths**, New York, has named Tom W. Brown, jr., southern sales manager of the concern.

**Montecatini** superphosphate works in Italy has announced plans to construct new granulation plants at Porto Marghera, Porto Recanti and Bagnoli.


POTASSIUM CHLORATE
SODIUM CHLORATE
Prompt Delivery from New York Warehouse Stocks
DUFF CHEMICAL COMPANY, INC.
342 MADISON AVE., N. Y. 17 • MUrray Hill 7-6502-3-4
*Cable Address:* "CHEMDUF"

*Manufacturers of*
Red and Black COPPER OXIDE
COPPER SCALE
ROBERT A. COUPE, 260 Rhode Island Ave., PAWTUCKET, R. I.
Telephone: PErry 3354

*Inquiries Solicited*
HEAVY and INDUSTRIAL CHEMICALS
*Spot—Future*
HENRY SUNDHEIMER COMPANY
MUrray Hill 5-4214 103 PARK AVE., NEW YORK
Established 1908

SULPHUR "WELLS"
Discovered by drilling far beneath the earth's surface . . . melted by vast quantities of superheated water . . . lifted by compressed air through pipes —Sulphur becomes available to Industry. In the background, but always essential to the oil, paint and drug field, Sulphur helps in the production and processing of hundreds of necessities. Freeport Sulphur Company, oldest United States producer of crude Sulphur, has been supplying this vital raw material for over 35 years.

FREEPORT SULPHUR COMPANY
OFFICES: 122 East 42nd Street, New York 17, N. Y. • MINES: Port Sulphur, Louisiana • Freeport, Texas

Producers of SULPHUR
Uniformly high purity of 99½% or better
TEXAS GULF SULPHUR CO. Inc.
75 E. 45th Street New York 17, N.Y.
Mines: Newgulf and Moss Bluff, Texas

CALCIUM FERROCYANIDE
TECHNICAL
HENRY BOWER CHEMICAL MFG. CO.
30TH & GRAYS FERRY RD. PHILADELPHIA 46, PENNA.

Heckathorn AND COMPANY
INSECTICIDE PROCESSING
All types of grinding, blending and packaging facilities for liquids and powders.
2, 4-D • DDT • BHC • Chlordane • Pyrethrum
HECKATHORN AND CO. 641 4th St., Richmond, Calif.

DIMETHYL PHTHALATE
▼
INSECT REPELLENT
▼
BIRCH PRODUCTS CORP.
369 LEXINGTON AVENUE NEW YORK 17. N. Y.
Telephone: MUrray Hill 5-6658

The plastics industry may well pride itself upon the tireless research, creative imagination and aggressive promotion which have boosted plastics production 600 per cent in the last 10 years.

We at Barrett, too, take pride in our own contributions to this colorful new world of plastics. Over the years we have kept the industry supplied with a vast and growing stream of basic chemicals and plasticizers. For some of these, we are the world's principal supplier.

Helping businesses like the plastics industry to prosper has made Barrett "one of America's great basic businesses."

If you have any problems involving the use of Barrett* chemicals why not discuss them with the Barrett field representative. We will gladly send you booklets describing Barrett chemicals and their applications.

Barrett

THE BARRETT DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.
In Canada: The Barrett Company, Ltd.
5551 St. Hubert Street, Montreal, Que.

BARRETT* CHEMICALS AVAILABLE TO THE PLASTICS INDUSTRY

"ELASTEX" 10-P Plasticizer • "ELASTEX" 28-P Plasticizer • "ELASTEX" 50-B* Plasticizer
"ELASTEX" DCHP Plasticizer • Dibutyl Phthalate • Phthalic Anhydride • Phenol • Crystal Urea

*Reg. U. S. Pat. Off.


# Coaltar Chemicals

There was a price advance of 10 cents per pound on the resin and technical grades of resorcinol. This was the first time that resorcinol has exceeded the 1939 price level. At a time when price increases are the expected and accepted thing, it is indicative of how the coaltar chemical industry has held the advance price line, that this and certain other materials in the last ten years have not exceeded the 1939-1940 level. USP resorcinol was increased in price 25 cents per pound. Metacresol of the 98 percent grade, reflecting accumulated increased cresylic costs, was likewise advanced 10 cents per pound. The Index remained unchanged.

Basic products held to former price levels, but it was felt in most quarters that coaltar bases and acids would move upward at or before the year-end, as a result of the steadily increased cost of production. With the expectation of creosote, basic products were in short supply, most of them critically so. Naphthalene was in a mildly short, but not yet tight, supply position which was felt likely to become more acute in the coming weeks, primarily because under the influence of the bad war news from Korea, foreign producers and sellers were inclined to limit offerings in the expectation of getting higher prices.

Against this effect, however, was the increased production, monthly, of domestic plants, and the still greater production level which will be reached by the year-end when a plant resumes full operation following a strike of five months during the second half of this year. The effect might be sufficient, in the opinion of some observers, to offset the price holdout at foreign sources.

Midwestern plants were adversely affected by the storm which raged over a wide area of the nation the previous weekend, and production was held up to some extent or seriously delayed for a matter of days. The result was that, even though production got underway again, the extent of production for the week of steel ingots and castings could not be learned because of the breakdown in communication lines in much of the mid-western area. This production will be reported in the next issue.

## Market Trends

**Prices Advanced**

Metacresol, 98%, 10c. per lb.
Resorcinol, technical, 10c. per lb.
USP, 25c. per lb.

**Prices Reduced**

None

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Dec. 3, 1949 |
|---|---|---|---|---|
| 123.2 | 123.2 | 123.2 | 110.1 | 110.1 |

(*For Current Prices see Page 9*)

## Basic Products

**Benzol** — By virtue of the growth of chemical markets in the postwar period for products derived from benzol, directly or indirectly, there would currently be a shortage of benzol without the considerations of military end-use demand. Particularly the expanded markets for styrene, phenol, nylon, and synthetic detergents were to be noted, because they account for well over 70 percent of the benzol consumption.

Meanwhile, the Korean-Chinese war has placed a heavy added burden of demand on available benzol supplies, and being military, a large part of this demand takes preference and priority over domestic end-uses which must accordingly be curtailed. The result is a continued critical shortage of benzol from which there is no relief in the foreseeable future. Heavy imports have helped keep the supply situation somewhat less than desperate, enabling the most dire immediate requirements to be reasonably met. Prices, meanwhile, have not been advanced, but in view of the steadily mounting costs, together with higher price levels prevailing in the market for petroleum aromatics, the possibility of higher prices was a matter not to be overlooked.

Government estimates indicate that the potential demand for benzol is in excess of supply by some 30,000,000 gallons, even before the synthetic rubber program gets rolling, at which time some additional 20,000,000 gallons would be required according to present estimates. This prospect of drastic shortages of benzol in 1951 accounted in part for the clamor for practical development of manufacture via the direct hydrogenation of coal. Any such commercial development, however, was necessarily a long term proposition.

The Tariff Commission reported total benzol production of all grades by both tar distillers, petroleum sources and cokeoven operators in September as amounting to 16,573,059 gallons. Of this total 3,292,390 gallons were turned out by tar and petroleum distillers and 13,281,669 gallons were produced by cokeoven operators. Only 643,123 gallons of the 16,573,059 gallon total output were of motor grade, the balance was of other grades, mostly nitration and pure.

**Cresote** — Domestic output was substantially supplemented by heavy imports. Supplies were entirely adequate to meet current demands, and prices held to the 20c. per gallon price level in tankcars. September production, as reported by the Tariff Commission, by both tar distillers and cokeoven operators, amounted to 11,414,688 gallons, as against a total of 11,509,665 gallons turned out in August. Of the total September output, tar distillers accounted for 8,707,725 gallons, and cokeoven operators 2,706,963 gallons.

**Naphthalene**—The unsatisfactory war news with respect to developments in the Korean area had an adverse influence on the imported market in so far as offerings at the source were concerned. There was a tendency in some instances for sellers to sit back and hold material because they felt that a more strenuous war effort would result in higher prices. No such higher prices, however, were immdeiately forthcoming, and some observers entertained some doubt as to whether or not they would.

Domestically, there was some prospect of production being stepped up significantly by the year-end as a result of resumed operations of struck plants, which had been idled five months in the last half of the year. Even without the operation of this plant, domestic production was steadily increasing, with September production being in every grade higher than the August output. During September refined naphthalene production by tar distillers amounted to 8,797,764 pounds, compared with the August output of 8,137,633 pounds.

Domestic production of crude naphthalene melting at temperatures below 79°C, was reported by the Tariff Commission as amounting to 15,807,541 pounds by tar distillers and 8,278,558 pounds by cokeoven operators. The corresponding production figures for August were 14,008,730 pounds and 7,677,097 pounds respectively.

**Cresylic Acid**—Production of refined cresylic acid from all sources, tar distillers, coke oven operators, and petroleum refiners, totaled 2,290,866 gallons in September, according to a Tariff Commission report. This was somewhat less than the 2,410,822 pounds turned out in August. Cresylic acid prices were steady, contract prices being unchanged so far this quarter, except for an increase in petroleum schedules early in the quarter. Meanwhile, costs have steadily increased in the coaltar manufacturing industry, and it was felt likely that the current price pattern would not hold beyond the year-end.

**Cresol**—There was no relief in the critical cresol shortage last week and none could be expected, according to informed sources. Prices were steady at levels established some months ago. However, increased costs indicated that an upward price adjustment was imminent, and such action was expected at or before the year-end. Producers of both technical and USP materials were operating under a heavy backlog of orders. Some of this pressure was felt likely to be relieved a bit by the year-end and in early next year by the resumed operations of a large tar distilling plant which for the past five months had been idled by strikes.

The Tariff Commission reported production of meta-para cresol during September as 463,567 pounds, compared with the August output of 695,467 pounds. In September some 840,730 pounds of ortho-meta-para cresol was produced, as against the 760,007 pounds turned out in August.

**Phenol** — The demand for phenolic resins, adhesives, and plastics continued to run in excess of the available phenol for their manufacture. The situation was made more acute by the heavy pressure of demand on benzol for other derivatives, and especially for styrene monomer for the synthetic rubber program. With the government's expanded rubber production

*For Late Market Developments, See Page 4*

# Koppers Tar Acids

## to meet your most exacting requirements **consistently!**

● You can always count on Koppers Tar Acids to meet required specifications . . . and to do it **consistently.** Furthermore, successive shipments of these acids are **constant** in their high quality —in their uniformity.

Koppers Tar Acids are especially valuable for the production of synthetic resins, tricresyl phosphate, disinfectants and soaps; also for the purification of lubricating oils.

**Phenol** 39°C. m.p. . . . 90% . . . 82%

**Cresols** Meta Para . . . Ortho . . . U.S.P.

**Special Resin Cresols**

**Cresylic Acids** 99% purity . . . a complete line with distillation ranges appropriate for all purposes

**KOPPERS COMPANY, INC.**
Tar Products Division
Pittsburgh 19, Pa.

KOPPERS


not expected to get into full swing until next year, the prospects for anything but further curtailed output of phenol and styrene for such end-uses as plastics was bleak, indeed.

Prices were as yet unchanged, but most observers were inclined to feel that the year-end would see upward price adjustments effected to partially offset accumulated increased costs. The downward trend in phenol production was illustrated by the production figures released by the Tariff Commission on the combined output of both natural and synthetic phenol. In September production amounted to 25,691,686 pounds, while in August some 28,312,153 pounds were turned out.

**Pyridin**—Refined 2° material continued to move at prices of $1.05 per pound in less than carlot drum quantities. Demand, which from the pharmaceutical industry was running at a very high level, was in excess of available supplies. Most producers were in a solid-up position, with the result that spot material was virtually not to be had at any price. Some slight relief in the present critical market was felt likely to be evident by the year-end as a result of resumed operations of a plant which was idled by strikes most of the second half of this year. No production figures for August or September were available.

**Toluol**—Production by cokeoven operators in September was reported by the Tariff Commission as 2,542,293 gallons, as against the August output of 2,634,715 gallons. However, toluol output from other sources was stepped up in response to the heavy consumer demand to 4,099,417 gallons, compared with the 2,914,044 gallons these sources produces in August. At the same time that this production was substantially increased, a strike was in existence at a plant of one of the major petroleum source producers. Prices last week were unchanged, but some upward adjustment of coaltar source material, because of increased costs and the recent upward trend in petroleum source material, was felt imminent.

**Xylol**—Total output of xylol from all sources was reported by the Tariff Commission as amounting to 5,769,660 gallons, as compared with the 6,563,180 gallons turned out in August. Supplies were tight, and there was no material change in the market position of this item last week from that which has prevailed over recent weeks. What was reported above with respect to the price position of toluol applies likewise to xylol.

## Intermediates

**Anilin**—There was no change in the short supply position of this item during the week, and prices held firmly to former levels at which it was expected they would hold until the year-end, despite significantly increased raw material and manufacturing costs. The Tariff Commission reported September production as amounting to 8,543,283 pounds, as compared with the 7,860,976 pounds produced during August.

**Metacresol**—As a result of accumulated higher cresylic costs, the price of 98 percent grade metacresol advanced 10c. per pound. This brought carlot drum quantities to 75c. per pound, and less than carlot price levels to 76c. per pound. Demand was strong against a limited supply situation.

**Phthalic Anhydride** — Tight supplies moving under a price spread of 3c. per pound between different producers characterized the market on this item, a situation unchanged from that which has prevailed over recent weeks. Production in September, according to a Tariff Commission release, amounted to 19,031,422 pounds, while the August output was 18,367,165 pounds.

Demand during the year had fluctuated considerably, but for the last six months there was a steadily increasing demand that by Fall had the supply in a somewhat scarce position. The demand pressure on producers was rather sudden following the beginning of the Korean war, but for a considerable time this was thought to be due to scare buying and the lag in getting production units up to full capacity. However, for some months, now, plants have been operating at virtual capacity, and still the shortage continues.

**Resorcinol**—At a time when price advances in the chemical and every other industry is the expected and accepted thing, it is more often than not overlooked that even with the current upward price adjustments in the chemical industry, many items are not priced in excess of 1939 and 1940 levels. Such was the case with resorcinol. Last week resorcinol prices on the resin grade and the technical grade were advanced 10c. per pound, and this is the first time that resorcinol has ex-


# REPUBLIC TOLUOLS

**NITRATION—COMMERCIAL**

REPUBLIC STEEL
REG. U.S. PAT. OFF.

*ALSO*

**BENZOLS** 1°—2°

**XYLOLS** 3°—5°—10°—Commercial

**AMMONIUM SULPHATE**

**CRUDE NAPHTHALENE**

*Specify Niles Steel Containers for your Packaged Items*

# REPUBLIC STEEL

CORPORATION
General Offices • Cleveland 1, Ohio
BRANCH OFFICES IN ALL PRINCIPAL CITIES

*Shipping Points:* Birmingham, Alabama • Canton, Ohio • Chicago, Illinois Cleveland, Ohio • Gadsden, Alabama • Massillon, Ohio • Warren, Ohio Youngstown, Ohio

BETHLEHEM COAL CHEMICALS

AMMONIUM SULPHATE

BENZOL
(nitration, industrial, motors)

TOLUOL
(nitration and industrial)

XYLOL
(industrial)

CRUDE NAPHTHALENE
CRUDE HEAVY SOLVENT NAPHTHA
CRUDE PYRIDINE

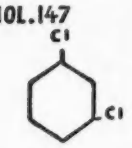
From plants at Sparrows Point, Md.; Lackawanna, N.Y.; Bethlehem and Johnstown, Pa. Nearby points served by convenient tank-wagon delivery.

*Other Bethlehem products for the chemical industry:*
Forged pressure vessels • Welded pressure vessels
Chemical-plant equipment • Sheets • Alloy studs
Hot-forged nuts • Pipe • BethColite (hot-dipped tinplate)
Electrolytic tinplate • Special-coated terne plate

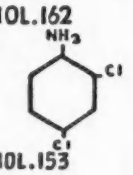
*For full details, write or call Bethlehem Steel Company, Bethlehem, Pa., or nearest district office.*

BETHLEHEM STEEL

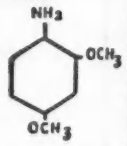
1.3 DICHLORBENZENE MOL.147
POINT OF SOLIDIFICATION - 24.5°C
SPECIFIC WEIGHT AT 15°C 1.295
BOILING POINT AT 760MM 172 - 173°
BOILING INTERVAL 1.5°



1-AMINO-2.4 DICHLORBENZENE MOL.162
POINT OF SOLIDIFICATION 60 - 61°C



AMINO-RESORCIN-DIMETHYLETHER MOL.153
POINT OF SOLIDIFICATION 35°C



...THESE ARE JUST 3 OF OUR MOST WIDELY USED

ORGANIC INTERMEDIATES

PLEASE WRITE FOR SAMPLES AND PRICES TO
CHEMISCHE FABRIK GRIESHEIM
U.S. ADMINISTRATION
FRANKFURT AM MAIN-GRIESHEIM
GERMANY

ceeded the 1939 price level. At the same time, USP powder and crystals were advanced 25c. per pound.

Under the new price schedule the resin grade was quoted at 81c. per pound in carlots and 82c. in less than carlot drum quantities. The technical grade in carlot drum quantities was quoted at 84c. per pound, while less than carlots were quoted at 85c. USP material was quoted in drums at $2.75 per pound for the crystals and $2.95 per pound for the powder. These prices were on an f.o.b. works basis. Back of the price rise was the accumulated higher benzol costs.

**Styrene**—Monomer prices were unchanged, following the upward adjustment effected some weeks ago. Demand was well in excess of supply, by virtue of much of the material which would normally be consumed by the plastics and resin industries, being shunted under priority into the government's synthetic rubber program. Production was hampered by the benzol shortage.

Tariff Commission reports indicated that the September output of styrene was 50,113,024 pounds, a significant gain over the 47,065,109 pounds produced in August.

## Koppers Co. Names Byrom Superintendent at Follansbee

Fletcher L. Byrom, assistant to the production Manager, Tar Products Division of Koppers Company, Pittsburgh, Pa., for the past year, has been named superintendent of the division's largest plant at Follansbee, W. Va. Mr. Byrom succeeds W. E. Walters, superintendent of the plant for the last four years, who will become an assistant to the production manager in the Pittsburgh office.

Mr. Byrom joined Koppers in 1947 after serving as a member of the research planning board of the navy department's Bureau of Ordnance. Mr. Walters has been with the tar products division of Koppers since 1925 when he joined the company at its Youngstown plant. Since 1931, he has been successively superintendent of the Buffalo, N. Y.; Kearny, N. J., and Follansbee plants of the division.

## Hilton-Davis Appoints 2 West Coast Agents

Hilton-Davis Chemical Company, a division of Sterling Drug, Inc., Cincinnati, Ohio, has appointed two new Pacific Coast representatives. Leslie C. Green Company, 605 Third street, San Francisco, Calif., will represent Hilton-Davis in that area, while the L. H. Butcher Company, 3628 East Olympic boulevard, Los Angeles, will be representatives in the southern California territory. Both companies provide warehousing facilities which will be stocked with major Hilton-Davis products.

## Coalite & Chemical Issues Data Folder, 3 Information Booklets

Coalite & Chemical Products, Ltd. London, England, has published a data folder and three information booklets. The folder includes an information leaflet and data sheets on twenty-two products produced by the concern. The booklets are entitled, "Coalite Cresylic Acids and High Boiling Tar Acids" (no. 200), "Coalite Pure Phenols" (no. 400) and "The Bactericidal Activity of 'Coalite' D.X.L. High Boiling Tar Acids Compared with A.D.F. Cresylic Acid (Xylenols)" (no. 300). Copies of any or all of the publications are available upon request to Coalite & Chemical, oil and chemical division, 82 Victoria street, London S.W.I.

## Steel Shipping Barrels Output Higher in Sept.

September production of steel barrels and drums, on an average working-day basis, were 2 percent above August and 8 percent above September, 1949, according to the Bureau of Census. During the month the industry turned out 2,435,257 heavy-type barrels and drums, 856,862 light-type barrels and drums, and 6,469,215 steel packages, kegs and pails. This compared with the production of 2,703,539 heavy-type barrels and drums, 1,006,520 light-type barrels and drums, and 7,102,461 steel packages, kegs and pails in August.

WOODWARD COAL CHEMICALS
Produced at our own plant to A.S.T.M. Specifications

| | | |
|---|---|---|
| BENZOL Nitration • Industrial | TOLUOL Nitration | XYLOL Industrial |
| CRUDE NAPHTHALENE | CRUDE PYRIDINE | AMMONIUM SULPHATE |

WOOWARD IRON COMPANY • WOODWARD, ALA.
General Sales Offices: 1515 First National Building, Birmingham, Alabama • Phone 4-6786
*Independent Since 1882*

Cresylic Acid
All Grades
REINHART Chemical Corporation
CHRYSLER BUILDING, NEW YORK 17, N. Y. • MU. 5-0376 • CABLE: RECHEMCORP

FOR YOUR INFORMATION
These are the Divisions of
PITTSBURGH COKE & CHEMICAL COMPANY
COAL CHEMICAL DIVISION
EMPIRE CHEMICAL COMPANY
ACTIVATED CARBON DIVISION
PITTSBURGH AGRICULTURAL CHEMICAL COMPANY
PROTECTIVE COATINGS DIVISION
NEVILLE COKE DIVISION
NEVILLE PIG IRON DIVISION
GREEN BAG CEMENT DIVISION
NEVILLE CONCRETE PIPE COMPANY
PLASTICIZER DIVISION

PITTSBURGH COKE & CHEMICAL COMPANY
1955 GRANT BUILDING • PITTSBURGH 19, PA.
OFFICES: NEW YORK • SAN FRANCISCO • TULSA • HOUSTON

# Petroleum Derivatives

Petrolatums were up in price again during the past week, this time by ½ cent. Both technical and USP white mineral oils also showed gains. They advanced by 2 cents per gallon. These items were in strong request but only limited amounts of them were available. One maker of intermediate aromatic solvents followed the recently started upward move and advanced its listings by 2c.

Toluol and xylol continued in as tight a supply picture as they had been for some time back, and there were no signs of their undergoing any easing in the immediate future. In fact, it was likely that they would become tighter, if anything. Aliphatics were still in an unchanged condition. The demand was at high levels, and while supply was generally satisfactory for the ordinary needs of consumers, it was not so strong that it could stand any great additional pressure. Heptane, hexane and pentane were about where they had been. Butane and propane were up by ½ cent in the Group 3 area Saturday but the new prices will not be officially recorded in the OPD listings until the next issue.

The demand for microcrystalline and paraffin waxes held at a high point during the week and was expected to go on that way. The supply was not easy for either of them. Prices, however, held at their previously established levels.

## Solvents and Diluents

**Aromatic Solvents** — Prices were stabilized during the past week at the recently revised levels and there were no indications of any further changes in the immediate future. However, both toluol and xylol continued in a strong market and it looked as though they would stay there for as long as anyone cared to predict. The general situation was tight, as it had been for some time, and for commercial outlets it was getting tighter, what with the government's demands for more toluol for aviation gasoline and much of the aromatic destined to find its way into TNT production. Despite these conditions, the trade was getting reasonably good supplies from the harassed producers, although it was noted that the backlog of orders was building up and shipments were beginning to slow down.

Higher boilers were recently revised in price and as of last week were in as tight a supply position as they had been for some time, and, apparently, would be for some time to come. The demand was at high levels and seemed likely to stay that way for at least the immediate future. Intermediate aromatic solvents, which advanced in some quarters during the previous week moved up in another quarter last week. Two cent increases were noted for 200-285 b.r., 25-26°C., m.a.p.; 270-370 b.r., 26-27°C., m.a.p.; 300-400 b.r., 28-32°C., m.a.p.; 340-410 b.r., 36°C., and 32°C., m.a.p.

**Cleaners' Naphtha**—Price listings were stable last week at their recently revised figures. The demand was keeping up to the good levels that had been noted in the recent past and there were no indications of any falling off. Supply was not precisely tight, but there was no oversupply either.

**Lacquer Diluent**—The supply of this item was not in the best of shape and there were reports of sellers being pinched for sufficient material to satisfy their customers. Demand, which had been at a high point for some time past, was continuing that way last week and was expected to go on at high levels. The price structure, which recently was revised, was stabilized at the new listings for the present time.

**Mineral Spirits**—Enough of the material was available at this time to accommodate the normal needs of the market, but the item was not in a strong position and it was said that any heavy increase in buying would probably put considerable strain on availability. Demand was at a high point and was expected to go on that way for the foreseeable future, at least. Prices were stabilized at the recently revised listings.

**Rubber Solvent**—The supply was in pretty good shape last week, and the normal requirements of the market could generally be satisfied with comfort, although there was no overage of the material. The demand, which had been strong for some time, continued that way during the week and gave indications of going on in the same vein for at least the immediate future. Prices were holding at the levels at which they had been revised recently.

**Stoddard Solvent**—At the moment the supply was high enough to accommodate the ordinary needs of the market without any particular difficulty, but, while not tight, it was not on the long side either and there was some question whether there would be enough material to satisfy a heavy additional load of orders. Demand was holding up at a good level and gave indications of continuing that way. The price was holding at the revised levels of the recent past.

**V. M. & P. Naphtha**—There was nothing that could be called a surplus during the week, and there were no signs that there would be any immediately, although there was enough material available to satisfy the ordinary wants of the trade. Demand continued at a high level and showed signs of going on that way. The recently revised price picture was unchanged.

## Lighter Fractions

**LPG's**—Butane went up to 4½c. and propane to 4c. per gallon in the Group 3 area Saturday. These were rises of ½c. Neither item was in what could be called a tight position, but the Winter demand was on now and that was putting pressure on suppliers. At the moment supply was equal to the wants of the market, but it was showing signs of tightening up.

## Waxes

**Microcrystalline** — The demand, which had been strong for some time, was still good during the past week and appeared likely to stay that way for the foreseeable future. The supply was on the tight side, as it had been in the recent past. There were no changes reported in the price structure.

**Paraffin**—Supplies were not sufficiently high to make the filling of orders a particularly easy thing. Demand was still keeping up at the good levels of the past. There was nothing to report concerning the price structure, except that it was firm.

## Miscellaneous

**Crude Petroleum** — The daily average production of crude petroleum increased to 5,888,000 barrels daily in September, an increase of 224,000 barrels over the August daily average of 5,664,000 barrels, according to the Bureau of Mines. The largest daily average gains reported were Texas with 162,000 barrels, California with 23,000 barrels and Kansas with 15,000 barrels. The remaining states showed slight declines or increases.

The Texas Railroad Commission reduced West Texas Canyon Reef oil area by 70,000 barrels a day, effective December 1. This adds to a previous state-wide proration cut of 160,000 barrels. Allowables for December will average about 230,000 barrels below present 2,730,000 barrel quota.

**Petrolatum** — Increases of ½c. were noted during the past week. These came on the heels of recent uppings in price of ¼c. on the whites and ⅜c. on the yellows. Demand was holding up at very high levels but supply left a great deal to

For Late Market Developments, See Page 4

### *Market Trends*

**Prices Advanced**

Petrolatums, ½c. per lb.
Petroleum, naphtha, high flash, 200-285 b.r., 37-38°C m.a.p.; 270-370 b.r., 26-27°C. m.a.p.; 300-400 b.r., 28-32°C. m.a.p.; 340-410 b.r., 36°C. m.a.p., and 32°C. m.a.p., 2c. per gal.
White mineral oils, tech., and USP, 2c. per gal.

**Prices Reduced**

None

*(For Current Prices see Page 9)*

### *Crude Oil Stocks*

Stocks of domestic and foreign crude petroleum at the close of the week ended November 18 totaled 245,116,000 barrels, according to the Bureau of Mines. Compared with the total of 242,239,000 barrels for the preceding week, this represents an increase of 2,877,000 barrels, comprising an increase of 2,100,000 barrels in stocks of domestic crude and an increase of 777,000 barrels in stocks of foreign crude.


*now...* a new safeguard for your products

**the super-refined qualities of PENN-DRAKE WHITE OILS *are "locked-in"***

In the manufacture of Penn-Drake White Oils, the finest possible crude oil stock is refined to a point well beyond USP Specifications. At this, the highest point of purity, the quality is "locked-in" by the addition of a USP-approved stabilizer, which keeps Penn-Drake White Oils from deteriorating with age.

With the addition of this preservative, the life-time stability of Penn-Drake White Oils is assured. In your processing, shipment and storage—you can be positive that your finished products will *not* suffer because of base deterioration.

To safeguard the quality of your products, specify Penn-Drake, the super-refined White Oils with the "locked-in" stability.

penn drake products

**PENNSYLVANIA REFINING COMPANY**
**BUTLER, PENNSYLVANIA**
**Branches: Cleveland, Ohio and Edgewater, N. J.**
Representatives in all Principal Cities



**Is Your Company Saving Money and Making a Better Product by Using Amsco Solvents?**

✓ *Check this list:*

Hundreds of companies throughout the United States are saving time, saving money, improving their products, or increasing safety by using Amsco solvents.

The list of uses below, while far from complete, will give you an idea of the almost limitless ways in which these versatile solvents may be used.

**CHEMICALS**—As ingredients in many chemical reactions and in the manufacture of some synthetic chemicals.

**CLEANING**—Used in preparation of detergents for commercial dry cleaning of fabrics and as spot removers; also as a cleaning solvent for textiles, metals and machine parts.

**EXTRACTION**—Close boiling solvents are used as the extraction medium for fats, vegetable oils, glue, rosin, and resins, and to produce certain pharmaceuticals.

**GLUES, ADHESIVES** — Used as a solvent for adhesive compounds and in the production of adhesive tapes.

**INK**—Used as solvents in production of printing inks: intaglio, heat set, etc.

**INSECTICIDES**—Several are used as solvent and carrier for insecticides.

**OILCLOTH, ARTIFICIAL LEATHER AND COATED PRODUCTS** — Applied as a solvent in the printing of oilcloth and in the impregnation of fabrics.

**PAINT, VARNISH & LACQUERS**—Used as solvent and thinner in the manufacture of paints, varnishes, lacquers, enamels, varnish removers and specialties.

**PRINTING**—Used as a general solvent and cleanser in printing plants.

**RESIN** — Amsco naphthas are used to make resin solutions including gloss oil.

**RUBBER**—Certain Amsco naphthas are used as solvents in the preparation of rubber cements, rubber shoes, rubber dip goods. Also vital in the manufacture of rubber tires, both natural and synthetic.

**TEXTILE**—Amsco naphthas are used for cleansing fabrics and also for pad dyeing, printing and treating.

**WAX & POLISH**—Amsco naphthas are ingredients in many compositions of liquid and paste waxes and polishes.

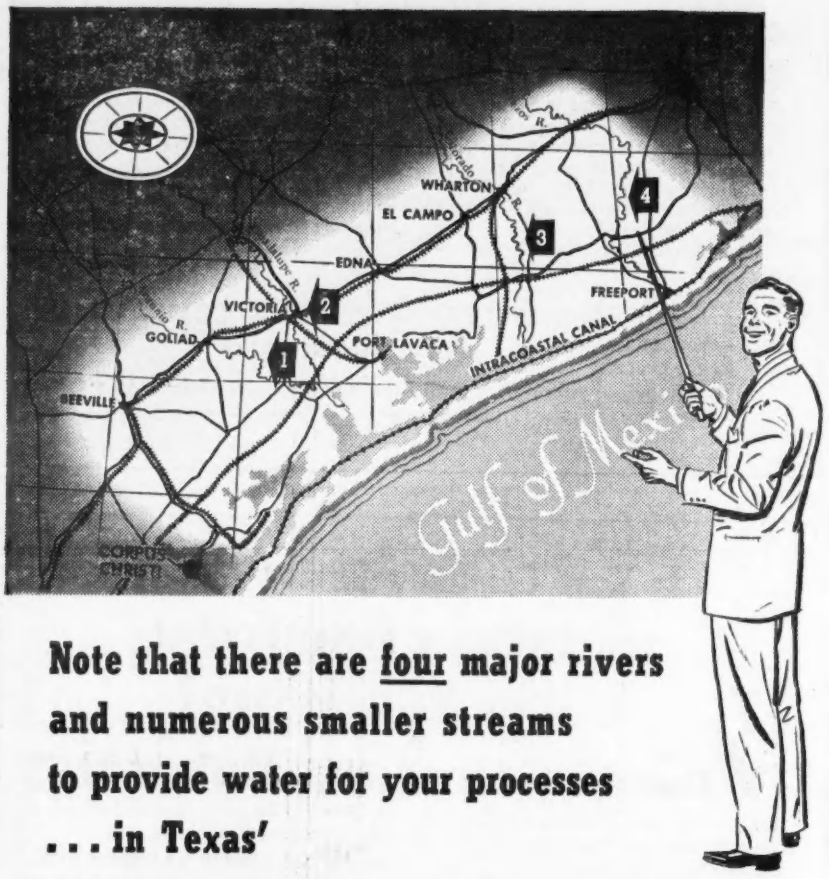
With the most complete line of petroleum-base solvents available, Amsco offers 27 years of specialized experience . . . prompt and intelligent service.

Your inquiry is invited. Write our Chicago office, 230 N. Michigan Ave., Dept. OP-41.

*SERVICE IN 48 STATES*
**American Mineral Spirits Company**
*New York • CHICAGO • Los Angeles*
ATLANTA • BOSTON • BUFFALO • CARTERET, N. J. • CINCINNATI • CLEVELAND • DETROIT • FORT WAYNE
GRAND RAPIDS • HOUSTON • INDIANAPOLIS • MILWAUKEE • NEW ORLEANS • PHILADELPHIA
PORTLAND • PROVIDENCE • SAN DIEGO • SAN FRANCISCO • ST. LOUIS • TOLEDO • TORONTO

PARAFFIN and MICROCRYSTALLINE WAXES

SHELL OIL COMPANY
50 West 50th Street, New York 20, N. Y.




**Note that there are four major rivers and numerous smaller streams to provide water for your processes . . . in Texas'**

# "COASTAL CORRIDOR"

An abundant water supply is not the least of the reasons why it will pay your company to investigate the Corridor as a site for your new plant. Others include equally abundant basic and intermediate chemicals; superb rail, highway and water-borne transportation facilities; a mild climate; willing Texan workers; such good industrial neighbors as Dow (Freeport), Alcoa (Port Lavaca) and Du Pont (Victoria).

*And natural gas from our pipe line — the most efficient, economical fuel you can use.*

Write for more detailed information about the Corridor. Or better, come down to see it; we'll be glad to show you around. Address Research Department, Houston Pipe Line Co., Houston, Texas.

**HOUSTON PIPE LINE CO.**
Subsidiary of Houston Oil Company of Texas
Wholesalers of Natural GAS

be desired. One producer stated that it was already sold up to March.

**White Mineral Oils**—The various grades were advanced 2c. during the past week as the material continued in a strong market, characterized by a heavy demand, and none too free a supply.

## Obituaries

### Arch L. McFarland

Arch L. McFarland, president of Wheeling Steel Corporation, Wheeling, W. Va., died November 28 in that city. He was sixty-seven.

Mr. McFarland started his career in 1905 as a messenger boy for Whitaker-Glessner Steel Company, which became Wheeling Steel. In 1912 he became superintendent of the company's plant at Portsmouth, Ohio. In 1923 he was made superintendent of Follansbee Brothers Steel Company in Follansbee, W. Va. Six years later he returned to Wheeling Steel as vice-president. He served as vice-president before being named president ten years ago.

### W. Scott Heywood

W. Scott Heywood, a founder of the Louisiana oil industry, died November 28 at his home in Jennings, La. He was seventy-eight years of age.

Mr. Heywood is credited with having drilled the first oil well in Louisiana when he opened up the Jennings field in 1901. Among his many oil activities, which included Texas and California operations in addition to his Louisiana strike, he was a founder of the Independent Petroleum Association of America in 1930. He also served as regional chairman of the National Recovery Administration oil board in the early 1930's.

**Albert L. Ellsworth,** board chairman and a founder of British American Oil Company, Ltd., died November 28 in Toronto, Canada. His age was seventy-four.

**Edward T. Ford,** a director and former vice-president of W. R. Grace & Co., New York, died November 26 in Santa Barbara, Calif. He was seventy-one years of age. Mr. Ford became vice-president of the Grace concern in 1927 and a director in 1932, giving up the former position upon his retirement in 1939.

**Joseph Fischler,** sales organization counsel for the United States Steel Corporation of Delaware since 1941, died November 30 in Pittsburgh, Pa. He was sixty-four years of age.

**Dr. Eugene Gardner,** University of California nuclear physicist, died November 26 in Vallejo, Calif. He was thirty-seven years of age.

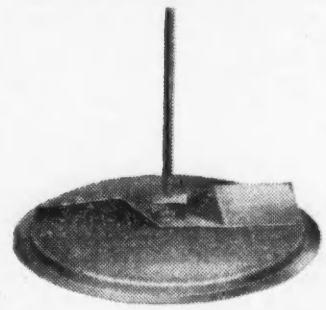
**G. Lloyd Knotts,** associated with the Portland, Me., office of E. I. duPont de Nemours & Co. for the past thirty-one years, died November 28 in Falmouth, Me. He was sixty-one years old.

**Campbell E. Locke,** a former director, secretary and treasurer of the Cerro de Pasco Copper Corporation and a former treasurer and director of the Homestake Mining Corporation, died November 29 in Cedarhurst, L. I., N. Y. He was seventy-six. Mr. Locke, who was also a partner in a New York law firm, retired eight years ago.

**George H. Milligan,** manager of sales accounting for the Atlantic Refining Company, Philadelphia, died November 26 in Brookline, Pa. He was sixty-three. Mr. Milligan had been an Atlantic Refining employee for the past forty-five years.

**Ernest Stauffen,** a bank executive and director of, among other companies, Anchor Hocking Glass Corporation, Coca-Cola Bottling Company of New York, Sharp & Dohme, Inc., and Union Oil Company, died November 29 in Englewood, N. J. He was sixty-seven.

WOODMAN
DRUM
AGITATOR



THE IDEAL DRUM AGITATOR!
—CHECK THESE FEATURES:

- QUICKLY ASSEMBLED—No bridge to weld—No pin to insert into agitator rod.
- AGITATOR BECOMES INTEGRAL PART OF DRUM—It is anchored to bottom by a standard ¾ inch cast iron plug screwed into a ¾ inch flange.
- BLADE BRINGS UP ALL PIGMENT FROM BOTTOM—Blade is within ¼ inch of bottom. Its 45° pitch assures thorough mixing of all pigments, oils and solvents.
- AGITATOR COMES KNOCK-DOWN—This saves storage space.

WRITE FOR INFORMATION AND PRICES

WOODMAN AGITATOR, INC.
15625 NORMANDY AVENUE
CLEVELAND 11, OHIO

VIKING
Petroleum Solvents
PENTANE • HEXANE • HEPTANE
PETROLEUM ETHER
LIGROIN • BENZINE
Special Solvents for Specific Purposes
LOW COST — HIGH QUALITY
UNITED FUEL GAS COMPANY
K. V. BLDG., CHARLESTON, W. VA.

PETROLATUMS
(Refined to strictly controlled quality specifications)
Quaker State Oil Refining Corp.
WAX DEPT. OIL CITY, PA.

ULTRA-PENN
Specialists in quality
PETROLATUMS — WHITE OILS
for every purpose
Ultra-Penn Refining Co., Butler, Pa.

## Nat'l Lead to Move Baroid Offices to Houston in 1951

The general offices of the Baroid Sales Division of National Lead Company, including the sales, administrative and research departments, will be moved in 1951 from the Los Angeles, Calif., headquarters to Houston, Texas. The Baroid division is a maker of products for drilling muds used in connection with the drilling of oil wells.

Contracts have been let to construct a 40,000 square-foot steel and concrete two-story headquarters building in Houston, with completion scheduled for July 1 occupancy. Houston has been headquarters for Baroid's Gulf Coast division.

## Emery Leaving Phillips

Don Emery general counsel, vice-president and a member of the executive committee of Phillips Petroleum Company, Bartlesville, Okla., has announced his resignation, effective December 31. Mr. Emery, who will enter private law practice in Oklahoma City, will continue as a director of the concern. He has been a Phillips employee for more than twenty-five years and a director and officer since 1938. Rayburn L. Foster, assistant general counsel, has been elected general counsel and vice-president, effective January 1.

## Indian Coal Resources For Synthetic Oil Found

A geological survey of four coal-bearing areas in West Bengal and Bihar—East Ranigunj, East and West Bokaro, Ramgarh and South Karanpura—indicate that an adequate supply of lowgrade coal suitable for the manufacture of synthetic oil is available, according to the Indian embassy. Investigations reveal that nearly 600,000,000 tons of quarriable coal with an ash content varying between 12 and 25 percent could be obtained for this purpose. Geologists have recommended the establishment of a synthetic oil plant in the East Ranigunj area, West Bengal. Similar plants may be set up in the other three regions after further exploration.

**American Mineral** Spirits Company, Chicago, Ill., had added Thomas Barker to its sales staff in the southeastern territory.


ALBATOL

ALBATOL 300
USES: Kettle blending
Core Oils
Caulking compounds

LIGHT COLORED PENTAERYTHRITOL ESTERS OF TALL OIL

ALBATOL 600
USES: Kettle blends
Linoleum
Printing inks

ALBATOL MALEIC—MODIFIED 3480
USES: As a finished varnish and vehicle
Excellent drying properties

Manufactured and Sold by
The Albemarle Paper Manufacturing Co., Richmond, Virginia



Petrolite

CROWN MICROCRYSTALLINE WAXES OFFER

*unique physical characteristics*

HIGH MELTING POINT • LOW PENETRATION • HIGH GLOSS
EASY EMULSIFICATION • PURITY • UNIFORMITY • WIDE RANGE OF COMPATIBILITY

*wide range of specifications*

| Crown Wax Number | Melting Point °F. | Penetration 100 g., 5 sec. | Color N.P.A. | Acid Number | Saponification Number |
|---|---|---|---|---|---|
| 200 | 190/195 | 10 max. | Dark Brown | Nil | Nil |
| 500 | 190/195 | 10 max. | 2 to 2½ | Nil | Nil |
| 700 | 190/195 | 5 max. | 2 to 2½ | Nil | Nil |
| 1035 | 195/200 | 2 max. | 2 to 2½ | Nil | Nil |
| * 23 | 180/185 | 6 max. | 6 max. | 20/25 | 55/65 |
| * 36 | 180/185 | 8 max. | 8 max. | 30/35 | 85/95 |

*EMULSIFIABLE WAXES.

Petrolite Waxes are 100% petroleum derivatives manufactured exclusively by Petrolite, in their own refinery designed primarily for the production of fine waxes. The crude stocks to be refined are carefully chosen, and when refined by Petrolite's selective refinery techniques, produce high quality waxes with virtually unique characteristics. Free wax samples and complete technical data are yours for the asking.

PETROLITE *Crown* WAX

PETROLITE CORPORATION, LTD. • WAX DIVISION
30 Broad St., New York 4, N. Y. • Refinery: Box 390, Kilgore, Texas

PWQ 50-3



FOR THE BEST IN PETROLEUM WAX

Mamspec

MOORE and MUNGER SPECIFICATIONS
Setting the Standard in Highest Quality Waxes for Industry Over Half a Century.

MOORE & MUNGER—33 Rector Street—New York 6



ELK BRAND

ANTIMONY OXIDE

99.5% $Sb_2O_3$

Meeting Specifications
TT-A-566
AN-TT-A-566

Mined and Smelted at Stibnite, Idaho
by
BRADLEY MINING CO.

★ ★ ★ ★ ★ ★

EXCLUSIVE NATIONAL SALES AGENTS

GILLIES & LOUGHLIN

311 California Street
San Francisco, Calif.

6363 Wilshire Blvd.
Los Angeles, Calif.

Seattle

Portland

Warehouse Stocks at Strategic Points

ALKALOIDS
Glucosides...Drug Extractives

Aconitine, Agaricin, Arecoline, Asparagin, Aspidospermine, Atropine, Berberine, Brucine, Colchicine, Digitalin, Emetine, Ephedrine, Esculin, Eserine, Homatropine, Hydrastine, Hyoscine, Hyoscyamine, Lobeline, Ouabain, Pelletierine, Physostigmine, Picrotoxin, Pilocarpine, Podophyllin, Quassin, Rutin, Salicin, Sanguinarine, Santonine, Scopolamine, Sparteine, Strophanthin, Strychnine, Yohimbine.

INLAND THE HOUSE OF ALKALOIDS
INLAND TIPTON, IND
PRICE COMMENSURATE WITH QUALITY SINCE 1917

INLAND ALKALOID COMPANY
MANUFACTURING CHEMISTS
TIPTON, INDIANA, U.S.A.

MAGNESIA
U.S.P.
MAGNESIUM OXIDE
LIGHT
and
HEAVY

MAGNESIUM CARBONATE
U.S.P. LIGHT

GENERAL MAGNESITE & MAGNESIA COMPANY
*Specialists in Magnesia*
MANUFACTURERS—IMPORTERS—DISTRIBUTORS
P. O. Box 671
NORRISTOWN, PA.

Greeff
HEPARIN SODIUM
NNR
•
*Available in Commercial Quantities*
R. W. GREEFF & CO., INC.
10 ROCKEFELLER PLAZA, NEW YORK, N. Y.
TRIBUNE TOWER, CHICAGO, ILLINOIS

LESS CORROSIVE
★
DOES NOT FREEZE
★
TRANSFERS MORE HEAT
★
CERTIFIED and INSURED

WILLIAM D. NEUBERG CO., INC.
Chemicals
420 LEXINGTON AVE. • N. Y. 17, N. Y. • TELEPHONE OREGON 9-2550
CABLE—"WILNEUBERG"

# Drugs and Fine Chemicals

Codliver oil was quoted 5 cents per gallon higher last week. Some producers of alcohol advanced prices by 5 cents per gallon. Other price movements initiated during the week involved upward adjustments of some producers by 5 cents per pound on acetophenetidin, methyl salicylate, and salol, and 3 cents per pound on aspirin. Bromine advanced 2 cents per pound. Some minor bromides were advanced reflecting accumulated increases in raw material and manufacturing costs, but as yet the bromine price increase was not reflected in bromoform or the major bromides. Crystalline and powdered USP resorcinal advanced 25 cents per pound.

Cocoa butter weakened significantly early in the week, but bounded back at the close for a net decline of only ½ cent per pound, in response to fluctuations in the commodity market. Trading in menthol saw early declines and some recovery during the week in the spot market, with prices netting a decline of 10 cents per pound after the price had been off as much as 20 cents per pound from the quotations of the previous Friday. Methanol advanced 3c. per pound. The index declined 0.2 point, becoming 259.9.

Ethyl and propyl gallate were firmly quoted, with supplies ample. Amyl acetate was still acutely short, and like most fermentation source esters, was quoted over a wide price spread between different producers. Bacitracin was meeting with increased technical interest and trade acceptance.

Refined fusel oil was in an extremely tight supply position, and some producers did not offer it any longer, but acetated whatever quantities of crude fusel oil they could get. Hard mercurials were still priced at a spread of some 20 cents per pound between different producers. The upward price movement in salol was a bit unusual because it normally does not move with salicylates generally, but from the standpoint of accumulated cost increases, the move could not be regarded as surprising.

**Acetophenetidin** — One maker advanced prices 5c. per pound last week, and material was accordingly variously quoted between different producers at a spread of 5c. per pound for any given quantity. The range of prices varying both as to seller and quantity was listed from $1.10 per pound to $1.33. Supplies were not too readily available by virtue of raw material shortages. Increased costs of raw materials were responsible for the upward price adustment which was initiated in the market last week.

**Alcohol**—Some producers of alcohol advanced prices another 5c. per gallon effective December 1, and others had upward revisions in mind for the immediate future, but felt that when the advance came that it would be more than 5c. per gallon because of the high price at which the molasses market, for the new crop material, had been established. Cuban molasses was contracted for at 20c. per gallon, Cuban ports, in large volume. Meanwhile, the molasses market in other quarters was closer to 25c. per gallon. Supplies of alcohol were tight, and prospective volume end use for next year, against indicated supplies, led to the feeling that the market would be short for the coming year. At least, it was definite that the market would be high priced during the coming year, by virtue of the high cost of molasses.

**Amyl Acetate**—Material made synthetically from pentane was priced at 18c. per pound in tankcars, 19¾c. in drum carlots, and 20¾c. in less than carlot drum quantities. These prices were on an f.o.b. works basis, with freight allowed East of the Mississippi river. Demand was reported as heavy against a generally short supply position.

Production of 90 percent normal and isoamyl acetate combined, was reported by the Tariff Commission as amounting to 179,604 pounds in August and 155,663 pounds in September.

Fermentation source amyl acetate was priced under a 5c. per pound spread between different producers. Tankcars were quoted on the regular standard grade at 23c. to 28c. per pound, with the usual carlot and less carlot drum differentials prevailing. The high test grade was priced 1c. per pound higher than the standard grade. Supplies were severely tight.

**Amyl Alcohol**—Material made from pentane was firmly priced at 18c. per pound in tankcars, 19¾c. in drum carlots, and 20¾c. in less than carlot drum quantities. These prices were on an f.o.b. works basis, with freight allowed East of the Mississippi river. In line with the solvent market generally, supplies were in a tight position.

Fermentation amyl alcohol was critically short, and prices varied somewhat, but a price schedule of 32c. per pound in tankcars, 33¾c. in drum carlots, and 34¾c. in less than carlot drum quantities prevailed on the grade marketed as isoamyl alcohol, boiling in the range of 126° to 132°C. Material of a narrower boiling range, 128° to 132°C was priced in l.c.l. drum quantities at 36½c. per pound. Amyl alcohol meeting ACS specification in l.c.l. drum quantities was quoted on a delivered basis at 38½c. per pound.

**Aspirin**—Prices were advanced 3c. per pound in some quarters, but by presstime the advance had not become general throughout the industry, although it was felt that when current cost studies were completed the market would be generally up, because of the increased raw material costs. The standard grades of aspirin were currently quoted at 52c. to 55c. per pound, while the special grades were listed in the range of 57c. to 60c. per pound.

**Bromides**—As yet the price increase of 2c. per pound in purified bromine was not reflected in the price structure of the major bromide salts or bromoform. However, repeated increased raw material costs, including those of bromine, which had not heretofore been reflected in the price schedules of the minor bromides were finally manifested in an upward adjustment of 10c. per pound on such bromides as cadmium, calcium, lithium, and strontium.

**Bromine**—Purified bromine was advanced another 2c. per pound last week, bringing carlot shipments of cases to 25c. per pound on a freight allowed basis, East of the Rocky mountains. The price of less than carlot quantities was quoted under the new schedule at 27c. per pound. These prices became effective November 27 on spot, but will not become effective on contract until the end of the year. As yet there was no reflection of this bromine price rise on any of the major bromides or bromoform, although some of the minor salts were adjusted upward.

**Caffeine**—Natural material was advanced by one maker to $5.50 per pound.

**Castor Oil**—Oil prices were unchanged, and beans held to former levels. Imports of beans last week amounted to 49,890 bags, equivalent to 7,438,500 pounds, compared with 51,293 bags or 7,693,950 pounds during the corresponding week of 1949.

Total arrivals of beans since January 1 of this year amounted to 1,499,940 bags equivalent to 224,991,000 pounds, compared with imports of 1,583,330 bags or 237,499,500 pounds during the coresponding period of last year.

**Cocoa Butter**—After dipping to 68c. per pound under the influence of a cheapening of bean prices, butter was raised at midweek to 72c. per pound and ranged as high as 75c. as to quantity when beans scored price recovery and turned rather definitely into a stronger path of price development.

**Codliver Oil**—Effective December 1, prices on USP oil were advanced 5c. per gallon, making the spot market $1.80 to $1.90. This reflects advances made in shipment prices and also the 10 percent to 15 percent decrease in the purchasing power of a dollar spent in Norway.

Stocks in Norway and Iceland are extremely small, remain in strong hands, and are difficult to obtain at this time. However, some relief may be forecast by the fact that production in Norway should

*For Late Market Developments, See Page 4*

## *Market Trends*

**Prices Advanced**

Bromine, purified, 2c. per lb.
Calcium bromide, 10c. per lb.
Camphor, synthetic, tech., 5c. per lb.
Codliver oil, USP, 5c. per gal.
Lithium bromide, 10c. per lb.
Methanol, synthetic, 3c. per gal.
Resorcinol, USP, 25c. per lb.
Strontium bromide, 10c. per lb.

**Prices Reduced**

Cocoa butter, ½c. per lb.
Menthol, 10c. per lb.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Dec. 2, 1949 |
|---|---|---|---|---|
| 259.9 | 260.1 | 258.1 | 254.4 | 255.1 |

(*For Current Prices see Page 9*)

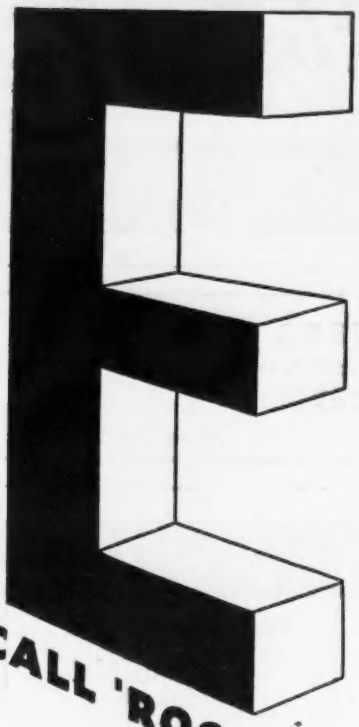

**VITAMIN E ACETATE**

(*dl*-alpha-TOCOPHEROL ACETATE—INTERNATIONAL REFERENCE STANDARD)

**VITAMIN E**

(*dl*-alpha-TOCOPHEROL)

**Stocked for immediate shipment**



Make Roche headquarters for:
Ascorbic Acid Riboflavin
Thiamine Pyridoxine
Panthenol Biotin
*dl*-alpha-Tocopherol unesterified
*dl*-alpha-Tocopherol Acetate
Calcium Pantothenate dextro
Niacin Niacinamide
Vitamin A Acetate synthetic
Vitamin A Palmitate synthetic

**'ROCHE'**

COURTEOUS SERVICE

CALL 'ROCHE' FOR VITAMINS

VITAMIN DIVISION NUTLEY 2-5000
HOFFMANN-LA ROCHE INC. NUTLEY 10, NEW JERSEY
In Canada: Hoffmann-La Roche, Ltd., Montreal, Que.



**MENTHOL**

**U.S.P.**

★ *Bulk*

★ *Subdivisions*

★ IMMEDIATE SHIPMENT FROM NEW YORK STOCKS

*Chemical Division*
McKESSON & ROBBINS INC.
155 EAST 44th ST. • NEW YORK 17, N.Y.

start in January, and the further fact that the strike of fishermen in Iceland has been settled.

So far as United States actual needs are concerned, informed opinion is that unless buyers foul up the supply situation, such needs can be met out of current stocks.

The tight situation in foreign oil has been caused in part by the absorption of 300 to 400 tons of oil by the United Nations children's emergency committee.

**Camphor** — The continuing mounting costs on terpines resulted in an increase on synthetic camphor. Technical camphor was quoted December 1 at 48c. per pound in carlots, 50½c. per pound in 10 barrel quantities, and from 51c. to 57c. per pound on smaller lots, depending upon the quantity. These prices were effective December 1 on spot.

**Ethyl Acetate**—Synthetically produced material advanced 2c. per pound on all grades, but was still priced well under the level of fermentation source material. Under heavy demand, supplies were reported as still seriously short.

**Ethyl Gallate**—Supplies of this antioxidant were amply available with demand limited, but on the increase, by virtue of a growing trade acceptance and technical interest. Prices were firmly quoted on an f.o.b. basis at $3.90 per pound in ton lots, $4 per pound in 1,000 pound quantities, and $4.40 per pound in 100 pound lots. Smaller quantities ranged upward from $4.45 to $4.55 per pound, depending upon quantity.

**Glycerin**—Plans were announced for the expansion of synthetic glycerin production facilities that will eventually increase the current synthetic output by some 50 percent. Such expansion plans included the building of two units the first of which was expected to be in operation around late July. Meanwhile the market remained critically tight, and prices firm.

**Isopropyl Acetate**—Prices were advanced last week to new levels in which tankcars were quoted in the range of 11½c. to 12c. per pound.

**Methanol**—Prices were advanced 3c.


PROCTER & GAMBLE
Gwynne Building, Cincinnati 2, Ohio
Commerce Building, 155 East 44th Street
New York 17, N. Y.
Glycerine
ALL GRADES
9 CONVENIENTLY LOCATED
PRODUCING AND REFINING PLANTS
ASSURE PROMPT SHIPMENTS AND DELIVERIES

LEVER BROTHERS COMPANY
Producers and Refiners of
GLYCERINE
80 Varick Street New York 13, N. Y.

ALL GRADES OF REFINED GLYCERINE
U. S. P. B. P.
YELLOW DISTILLED
HIGH GRAVITY
DYNAMITE
REFINERIES LOCATED AT
★ Brooklyn, N. Y.
★ Jeffersonville, Ind.
★ Jersey City, N. J.
★ Berkeley, Calif.
★ Kansas City, Kans.
COLGATE-PALMOLIVE-PEET CO.
GLYCERINE DEPARTMENT
105 HUDSON STREET JERSEY CITY 2, NEW JERSEY

A Half Century of Achievement!
GLANDULAR PRODUCTS
•
HORMONES
GEDEON RICHTER
Standardized and Biologically Controlled
NEW YORK
Gedeon Richter Pharmaceutical Products, Inc.
20 Exchange Place, New York 5, N. Y.
Cable: Lecithin
MEXICO CITY
Blvd. Miguel Cervantes Saavedra 5
Mexico, D. F.
Cable: Prorich
LONDON
14-18 Woodington Rd.
London N.W. 5
Cable: Lecithin
Pharmaceutical Trust Ltd.
14-18 High Holborn
London W.C.1
Cable: Pharmaholb

NATIONAL BRAND
MILK SUGAR
QUALITY STANDARD THE WORLD OVER SINCE 1883
ALPHA LACTOSE
BETA LACTOSE
NATIONAL MILK SUGAR COMPANY
Division of The Borden Company
350 MADISON AVENUE NEW YORK 17, N. Y.

ORIGINAL PRODUCERS OF MAGNESIUM SALTS FROM SEA WATER
Magnesium salts from the sea
MAGNESIUM
CARBONATES
HYDROXIDES
OXIDES
MARINE MAGNESIUM PRODUCTS CORPORATION
Main Office, Plant and Laboratories
SOUTH SAN FRANCISCO, CALIFORNIA
Distributors:
WHITTAKER, CLARK & DANIELS, INC.
260 West Broadway, New York
CHICAGO: Harry Holland & Son, Inc.
CLEVELAND: Palmer Supplies Co.
TORONTO: Richardson Agencies, Ltd.
G. S. ROBINS & CO.
126 Chouteau Avenue, St. Louis
THE C. P. HALL CO.
Akron, Chicago, Los Angeles
Write for Brochure

SODIUM SULPHIDE — C.P. WHITE CRYSTALS
FERRIC CHLORIDE
IRON SULPHATE — U.S.P. AND TECH. GRADES
ZINC NITRATE
SELDNER & ENEQUIST, INC.
Chemical Manufacturers Since 1902
86-112 HAUSMAN STREET, BROOKLYN 22, N. Y. EVERGREEN 8-7430
NO CONNECTION WITH ANY FIRM OF SIMILAR NAME

TB I and TB II
Gentisic Acid
Sodium Gentisate
Menadione, U.S.P.
Hexylresorcinol, U.S.P.
Para Aminosalicylic Acid
Sodium Para Aminosalicylate
Pentylenetetrazole, U.S.P.
Neostigmine Methylsulfate, U.S.P.
•
HEXAGON LABORATORIES, INC.
Manufacturing Chemists
3536 PEARTREE AVE. FA 4-7550 BRONX 66, N. Y.

per gallon last week, a change that was long expected in view of the increasing production costs and the tightening supply position. Under the new price schedule tankcars were quoted at 32c. per gallon in the East and 35½c. per gallon in the West. The usual differentials for drum carlot and less carlot quantities prevailed.

**Menthol**—Since the previous report, menthol dropped to a low of $11.40 per pound only to rebound moderately to $11.50 when Korean news once more tended to create possible jeopardy to continued shipments of Chinese menthol to this country. Futures were 10c. to 25c. per pound higher according to shipment position, a fact sufficient in itself to strengthen spot price views at least moderately. It cannot be said that consumers played much of a part in the shifting of local values and the disposition still was to hold off while hoping for a definitely favorable development with respect to the prospects for uninterrupted shipment of menthol from China ports.

**Mercurials**—A price spread, usually in the amount of 20 cents per pound, between the quotations of different producers, continued to characterize the market in hard mercurials last week. This situation has existed for over two weeks, and whether or not it would continue was a matter of conjecture. High priced mercury was the cause of the recent upward price adjustments.

**Methyl Salicylate**—Prices were advanced 5 cents per pound in some quarters last week, and those producers who had not as yet advanced prices had the matter under consideration because of the increased raw material and manufacturing costs. Accordingly, as of last week, a price spread of 45 to 50 cents per pound existed in the market, but it was felt that within a matter of days, that the market would be 50 cents generally. Supplies were short, but not critical. Demand was strong and well sustained.

**Salol**—This item, after maintaining a stable price position over a long extended period, advanced 5c. per pound in some quarters last week. The increase was not as yet general throughout the market, but was felt likely to become so in the immediate future. Prices formerly quoted at $1 were now listed by some producers at $1.05.


BEST EFFECT

- ACTH
- OX BILE U.S.P.
- CHOLIC ACID
- DESOXYCHOLIC ACID
- DEHYDRO-CHOLIC ACID N.N.R. (Oral & Injectable)
- TESTOSTERONE
- TESTOSTERONE ACETATE
- TESTOSTERONE PROPIONATE U.S.P.
- METHYL TESTOSTERONE U.S.P.
- ETHINYL TESTOSTERONE U.S.P.
- PROGESTERONE U.S.P.
- POSTERIOR PITUITARY U.S.P.

TESTOSTERONE U.S.P.

PROGESTERONE U.S.P.

Prices on request

BEST EFFECT Chemical Co., inc.
10 E. LAFAYETTE STREET
HACKENSACK, NEW JERSEY

SURFACE ACTIVE AGENTS to meet your requirements

A complete range of solubilities. Technical service to assist users in choice of emulsifiers, detergents, wetting agents, and similar materials. Custom-made products for special needs.

**SPAN** products—for general purpose emulsification and food uses. Mostly oil soluble.

**TWEEN** products—for general purpose emulsification and food uses. Mostly water soluble.

**ARLACEL** products—exceptionally color-free emulsifiers for cosmetic and pharmaceutical uses.

**MYRJ** products—emulsifiers for use in baked goods and other foods.

**RENEX** products—detergents for laundering, compounding, sanitizing.

**BRIJ** products—alkali-stable emulsifiers.

*Write for literature on emulsifier application for your industry.*

CHEMICALS ATLAS EXPLOSIVES

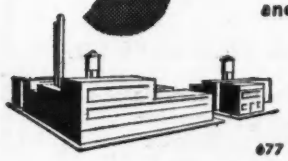
ATLAS POWDER COMPANY
Industrial Chemicals Department
Wilmington, Delaware
*Atlas Powder Company, Canada, Ltd.*
*Brantford. Canada*

Span, Tween, Arlacel, Renex—Reg. U.S. Pat. Off.
Brij, Myrj—Trade Mark

BPC
Phenyl Acetic Acid
Cinnamic Acid
BENZOL PRODUCTS COMPANY
Newark 5, N. J.
MANUFACTURERS OF FINE CHEMICALS

gane's

Prime producers of:
ACID PARA-AMINOBENZOIC, U.S.P.
AMINOPHYLLINE
BARBITURATES
BENZOCAINE
THEOPHYLLINE
and other fine pharmaceutical chemicals.



*Established 1929*
*Factory, Carlstadt, N. J.*
GANE'S CHEMICAL WORKS, INC.
677 FIFTH AVENUE, NEW YORK 22, NEW YORK • PHONE: PLAZA 3-8980

GLUTATHIONE
Schwarz

Clinical and experimental findings indicate that glutathione (GSH) shows great promise as a detoxifying agent. It has recently been used to alleviate diabetes experimentally produced in man by the administration of adrenocorticotropic hormone. Glutathione Schwarz is a refined product requiring no further purification for most research purposes.

Schwarz fine chemicals meet the exacting requirements of products intended for laboratory and clinical use.

*Write for revised price list.*

Schwarz LABORATORIES, INC.
204 East 44th Street
NEW YORK 17, N. Y.

Chemicals and Pharmaceuticals

CAMPHOR
NATURAL REFINED
POWDER and TABLETS
•
SODA NITRITE
UREA

Conray PRODUCTS CO.
510 AVENUE OF THE AMERICAS, NEW YORK 11, N. Y.
CABLE ADDRESS "CONRAYPRO"

**Save time and money with**

**"TERGITOL" SURFACE-ACTIVE AGENTS...**

Trade-Mark

**there's one for every wet-processing need**

| This surface-active agent ↓ | is best with these percentages of dissolved solids | | |
|---|---|---|---|
| | In Acid Solutions | In Alkali Solutions | In Salt Solutions |
| TERGITOL 7 | <1 | <1 | <1 |
| TERGITOL P-28 | unstable | 1–2 | 2–5 |
| TERGITOL 4 | 1–10 | 2–5 | 1–10 |
| TERGITOL 08 | 15–30 | 10–20 | 10–25 |
| TERGITOL 8H | 10–20 | 20–30 | 10–20 |

Note: Table is a guide only. Also test the "Tergitol" above and below the one indicated.

These sulfates and phosphates of higher synthetic alcohols are now shipped in non-returnable, resin-lined steel drums. For further information, write for technical bulletin F-5900.

*"Tergitol" is a registered trade-mark of Union Carbide and Carbon Corporation*

CARBIDE AND CARBON CHEMICALS DIVISION

UNION CARBIDE AND CARBON CORPORATION

30 E. 42nd St., New York 17 UCC Offices in Principal Cities

In Canada: Carbide and Carbon Chemicals, Limited, Toronto



Sodium
Potassium
Ammonium

**BROMIDES**

Bromine

**J. Q. DICKINSON & CO. :-: MALDEN, W. VA.**

FOUNDED 1835



**2 distinct forms of RIBOFLAVIN, U. S. P.**

**RIBOFLAVIN R.S., U.S.P.**
*Readily Soluble*
FOR FLUID PREPARATIONS

- Pure riboflavin—introduces no solubilizing materials which might interfere with formulation.
- Makes brilliantly clear solutions at room temperature.
- Eliminates necessity for heating to dissolve, thus effecting substantial economies in the plant.
- Uniformity of crystalline form.
- Freedom from foreign odor.
- Although somewhat hygroscopic, Riboflavin R.S. is otherwise easy to handle because of its high density.

**RIBOFLAVIN, U.S.P.**
*Standard Solubility*
FOR CAPSULES AND DRY PREPARATIONS

- Non-hygroscopic.
- Freedom from foreign odor.
- Exceptionally high purity.
- Uniformity of crystalline form.

*Biological activity of the two types is identical.*
*Available in 100, 1,000, and 5,000-gram containers.*

CSC

INDUSTRIAL CHEMICAL DIVISION
**COMMERCIAL SOLVENTS CORPORATION**
17 East 42nd Street, New York 17, N. Y.

PRODUCTS: Ethyl Alcohol & Derivatives • Acetone • Butanol & Derivatives • Formaldehyde
Methanol • Amines • Nitroparaffins • Crystalline Riboflavin


## *APMA Discusses Problems*

*—Continued from page 7*

that chloromycetin has continued to be highly effective in the treatment of Rickesttsial diseases.

**Scientific Award Conferred**

The annual APMA scientific award was jointly presented at the banquet on the evening of November 28 to Dr. Philip S. Hench and Dr. George W. Thorn. The presentation was made by Dr. Leonard A. Scheele, Surgeon General of the Public Health Service. Dr. Hench, professor of medicine at the University of Minnesota (Mayo Foundation), was honored in recognition of his research on Cortisone, for which he also shared the 1950 Nobel Prize for Medicine. Dr. Thorn, Hersey professor of the theory and practice of physic, Harvard University Medical School, received the award in recognition of his research on ACTH.

Irwin C. Winter, of G. D. Searle & Co., speaking on November 29 on "The Role of the Pharmaceutical Industry in the Civil Defense of the Community," stated that the "maintenance of the pharmaceutical industry at as near normal as is possible constitutes the prime service that the industry can offer the community in the event of attack." He emphasized that continuing research and the development of new drugs "to meet situations altered by the disorders of a continuing struggle may become of prime importance."

Mr. Winter pointed up some of the special services the industry could perform in the event of an emergency, citing storage depots for essential health service materials, use of facilities as emergency hospitals and the availability of staff physicians and other technicians for emergency health service units.

John T. Connor, vice-president and secretary of Merck & Co., speaking on "Company Organization for Industrial Mobilization," called for immediate adoption of an overall organization program. He stressed that leadership should come from industry, that it would be seriously negligent for manufacturers to wait for government directives before taking action. He stated that the industry must immediately devise ways of gearing its activities to the nation's mobilization program.

Dr. Paul C. Ohlson, of Rutgers University College of Pharmacy, discussing "Recent Trends in the Retail Drug Trade of Particular Interest to Manufacturers of Prescription Products," pointed up the fact that total sales of drug stores in 1950 are running at a rate about equal to 1949, or slightly under the 1948 peak. Although the selling price of packaged articles that make up the bulk of the sales of most drug stores has risen since 1939 the least of any important group of consumer products, he noted that the average price of prescriptions today is nearly 80 percent above the 1939 level. Therein, he concluded, lies the way to increased sales and profits for the drug store proprietor.


*ONLY AMERICAN MADE*

**CHLOROPHYLL**

Bowman Products

All Grades
High Concentration

**CHARLES BOWMAN & CO.**

220 East 42nd Street, New York 17, N. Y.
110 North Franklin Street, Chicago 6, Ill.
W. Glenn Wunderly, 170 E. California Street Pasadena 1, Calif.



**Progesterone U.S.P.**
**Testosterone**
**Testosterone Propionate U.S.P.**
**Methyl Testosterone U.S.P.**
**Desoxycorticosterone Acetate U.S.P.**
**Estrogenic Substance**
**Chorionic Gonadotropin**

*Prices on Request*

**VITAMERICAN OIL CORPORATION**
**1 John Street Haledon, N. J.**



MUNN'S GENUINE COD-LIVER OIL MADE IN NEWFOUNDLAND

**MUNN'S**
**NEWFOUNDLAND**
**MEDICINAL NON-FREEZING**
**COD LIVER OIL**

**Largest Manufacturers of Cod Liver Oil in Newfoundland for Over Fifty Years**

*Wire for lowest prices*

**W. A. MUNN & COMPANY, LTD.**
**ST. JOHNS - NEWFOUNDLAND**



EDW. S. BURKE J. F. HOLLYWOOD

**EDW. S. BURKE**
Established 1917
**65 PINE STREET, NEW YORK 5, N. Y.**

*Representing*

**CARUS CHEMICAL CO., INC.**

Potassium Permanganate, U. S. P. and Technical
Hydroquinone, Photographic and Technical
Sodium Benzoate, U. S. P. and Technical
Acid Benzoic, U. S. P. and Technical

**BENZOL PRODUCTS CO.**

Benzyl Chloride
Benzyl Cyanide
Benzaldehyde
Phenyl Acetic Acid
Phenylacetamide
Beta Phenylethylamine
Ethyl Cyano Acetate
Theophylline
And Other Fine Pharmaceuticals



**industrial CHEMICAL SALES**

**division west virginia pulp and paper company**

**NUCHAR Activated Carbon**

*Remember these NUCHAR "plus factors" the next time you buy activated carbon:*

1. Tremendous surface area . . . 120,000,000,000 particles in every gram of NUCHAR. 2. Low total ash content . . . approximately 3 to 5%. 3. NUCHAR removes iron from such products as corn syrup, organic acids, etc. 4. NUCHAR removes side reaction products thereby giving better crystallization, higher melting point, and purer products in general. 5. NUCHAR removes invisible or colorless impurities e.g. paraffin wax from white medicinal oils. 6. NUCHAR removes oxidizing compounds such as aldehydes and ketones from alcohol used for organic esters.

SALES OFFICES

| | | | |
|---|---|---|---|
| New York Central Bldg. 230 Park Avenue New York 17, N. Y. | Pure Oil Bldg. 35 E. Wacker Drive Chicago 1, Illinois | Lincoln-Liberty Bldg. Broad & Chestnut Sts. Philadelphia 7, Pa. | Leader Bldg. 526 Superior Ave., N. W. Cleveland 14, Ohio |

## Armour Labs Forms Int'l Department; Bradshaw Mgr.

Formation of a new international department of the Armour Laboratories, Chicago, Ill., with S. B. Bradshaw as manager, was announced November 27. The department, under the direction of the Chicago office of the laboratories, will supervise manufacturing, marketing, and other operations pertaining to Armour pharmaceuticals, sutures, and allied products made and sold abroad.

J. H. Walker will succeed Mr. Bradshaw as sales manager of the Armour Laboratories bulk sales department. He has been a member of the department for eight years.

## Manganese Nutritional Study Extended to Other Elements

The educational activities of the Manganese Resource and Development Foundation, Cleveland, Ohio, are being discontinued. J. F. Wischhusen, who has directed the work since 1944, says that the basic study will be shifted from the one essential element to the pandyramic action of all essential elements. He says further that the first paper supporting what the foundation has known in practice for twelve years was published in the September, 1950, number of the *Journal of Bacteriology*. It is "The Effect of Ionic Mn and Mg on the Variation of Brucella Abortus," by Leonhard J. Cole and Werner Braun.

Bulletins on the subject of the nutritional approach to human health and animal health are being issued by Inorganic Bioclements, Inc., 15031 Shore Acres drive, Cleveland 10, Ohio. Copies of the two or three already published may be got free at request.

Inorganic Bioclements, Inc., Wm. Wischhusen says, has been organized to make multiple trace elements available to the medical profession and to raises of livestock. Its products are designed to provide prophylactic or therapeutic agents for the correction of relative nutritional deficiencies and their consequences.

### Humphrey-Wilkinson, Inc. Offering Dicetyl Ether

Humphrey-Wilkinson, Inc., is currently offering dicetyl ether. The material, which is a soft white waxy crystalline solid, is non-toxic and non-allergenic and strongly water repellent. It is claimed to have a wide range of applications, including use as a plasticizer in resin and hydrocarbon mixtures, as a water repellent impregnating agent, as a water repellent additivie, as a lubricant in plastic molding and as a perfume fixative. Inquiries concerning the product should be addressed to the company's product development division, 1 DeVine street, North Haven, Conn.


**Menadione USP**
(Menaphthone)
Stock Deliveries and Contract
Immediate Shipment
**ORTHO CHEMICAL CORP.**
44-26 Purvis Street
Long Island City 1, N. Y.
Stillwell 4-8473

**HEPARIN SODIUM** U.S.P.
10cc Vials - 10 mg/cc
Injectable
EXPORT & DOMESTIC
*Large Quantities Available*
*Write:* BOX 581
OIL, PAINT & DRUG REPORTER

**FINE ORGANICS and PHARMACEUTICALS**
albumin tannate, medicinal
antipyrine salicylate, medicinal
benzyldisulfide, pure
calcium benzlphthalate, medicinal
calcium borogluconate, medicinal
calcium camphosulfonate, pure
*Write for our catolog*
**Fine Organics, Inc.,** 211z a. 19th st., new york 3, n.y.

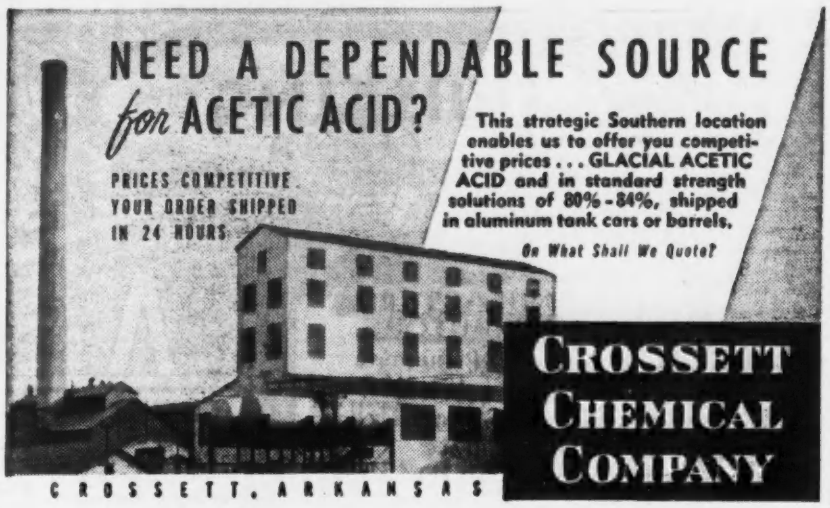
**COLLOIDAL SILVER, 70%**
**BARBITURATES**
MANUFACTURING CHEMISTS
**LAMEX CHEMICAL CORP.**
Plant: Birmingham, Alabama
Sole Distributors: OLIVIER COMPANY, INC.
25 Broadway, New York 4, N. Y.
Digby 4-4543 Cable: Austrasia New York

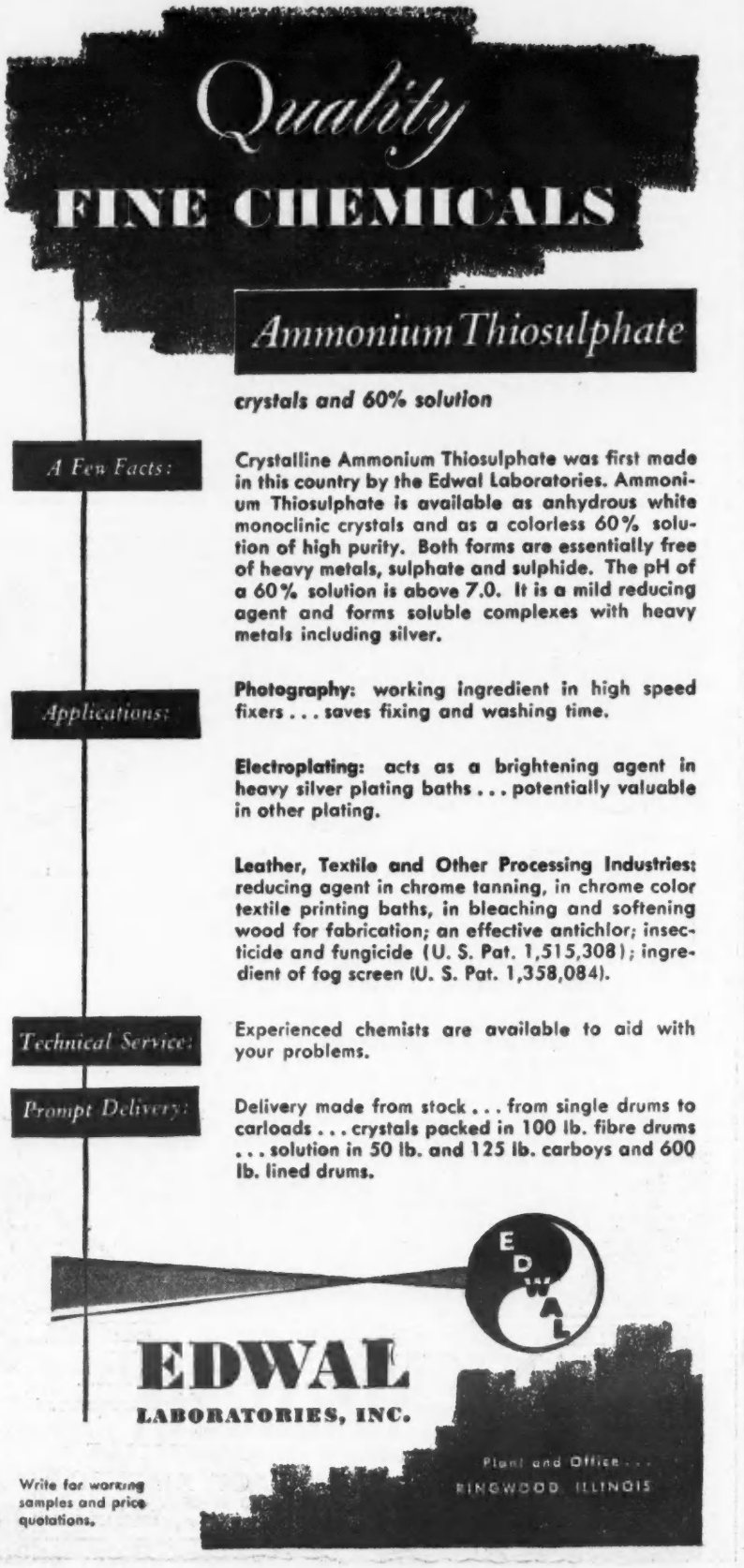
FOR QUALITY AND SERVICE
**SAPONIN**
**SODIUM CARBONATE U. S. P.**
**ZIRCONIUM NITRATE**
P&B
SINCE 1900
**Pfaltz & Bauer, Inc.**
EMPIRE STATE BUILDING, N. Y.

**Huisking** SINCE 1910
MANUFACTURERS' DISTRIBUTORS
Camphor U.S.P. Du Pont
Menthol Crystals U.S.P.
Hyoscine Hydrobromide U.S.P.
Atropine Sulfate
Sulfur Precipitated U.S.P.
NAPHTHALENE
COPPER SULFATE-HAARLEM OIL
MAGNESIUM CARBONATE
SUGAR of MILK U.S.P.
PAPAIN-SAFFRON SPANISH
Insecticides, Coal Tar Disinfectants
Beeswax U.S.P., Spermaceti U.S.P., Bismuth Salts, Iodides, Cocoa Butter U.S.P.
Witch Hazel, Paradichlorbenzene, etc.
CHEMICALS
*Pharmaceutical-Industrial*
DRUGS·OILS
VITAMINS
IMPORT & EXPORT MERCHANTS
Buying Agents for leading Foreign Houses in all parts of the world.
Selling Agents For Domestic Manufacturers.
**CHAS. L. HUISKING & CO., INC.**
155 VARICK STREET • NEW YORK 13, NEW YORK
Chicago Office
561 E. ILLINOIS STREET
Cable Address
HUISKING, NEW YORK
London Agents
Wheeler & Huisking Ltd, 26 Great Tower St, London E.C.3, England

SINCE 1872
**PEDER DEVOLD** P.D.
**COD LIVER OIL U.S.P.**
STANDARDIZED • TESTED • FINEST QUALITY • ALL POTENCIES
From Can to Carload Quantities. "The Bottlers' Choice Everywhere"
PEDER DEVOLD ® COD LIVER OIL USP *Norwegian*
5 gal. cans, 30 gal. bbls., 30 gal. drums, and 50-55 gal. drums
Attractively lithographed 1 gallon cans.
½ pint, 1 pint, and 1 quart cans for export.
PEDER DEVOLD COD LIVER OIL USP High Potent
Available in all natural potencies.
VITAMINE BRAND ® COD LIVER OIL USP *Non-Destearinated*
DEVOLD VITAMIN A & D FEEDING OILS
VITAMINE BRAND OILS (*Fortified Cod Liver Oils*)
PEDER DEVOLD WHEAT GERM OIL
VITAMIN A & D CONCENTRATES
CAROTENE CRYSTALS
DEVOLD DRY D3 (A Feed Supplement)
IMPORT EXPORT
**PEDER DEVOLD OIL COMPANY**
151-155 VARICK ST., NEW YORK 13 • Telephone: ALgonquin 5-2900
Cable Address: VITAMINE, NEW YORK
Associated in Norway with PEDER DEVOLD OIL CO., LTD., Aalesund

**SANTONIN N.F. VIII**
*Meeting Requirements of International Pharmacopoeias*
(Temporarily our stocks are exhausted)
ALKALOIDS of AMERICAN MANUFACTURE
**SANTONINE COMPANY OF AMERICA**
DIVISION OF CHAS. HUISKING & CO., INC.
155 VARICK STREET; NEW YORK 13, N. Y. Cable Address SANTOKICUS, N. Y.


NEED A DEPENDABLE SOURCE
for ACETIC ACID?
PRICES COMPETITIVE
YOUR ORDER SHIPPED
IN 24 HOURS
This strategic Southern location enables us to offer you competitive prices . . . GLACIAL ACETIC ACID and in standard strength solutions of 80% - 84%, shipped in aluminum tank cars or barrels.
On What Shall We Quote?
CROSSETT CHEMICAL COMPANY
CROSSETT, ARKANSAS


Quality
FINE CHEMICALS
Ammonium Thiosulphate
crystals and 60% solution
A Few Facts:
Crystalline Ammonium Thiosulphate was first made in this country by the Edwal Laboratories. Ammonium Thiosulphate is available as anhydrous white monoclinic crystals and as a colorless 60% solution of high purity. Both forms are essentially free of heavy metals, sulphate and sulphide. The pH of a 60% solution is above 7.0. It is a mild reducing agent and forms soluble complexes with heavy metals including silver.
Applications:
Photography: working ingredient in high speed fixers . . . saves fixing and washing time.
Electroplating: acts as a brightening agent in heavy silver plating baths . . . potentially valuable in other plating.
Leather, Textile and Other Processing Industries: reducing agent in chrome tanning, in chrome color textile printing baths, in bleaching and softening wood for fabrication; an effective antichlor; insecticide and fungicide (U. S. Pat. 1,515,308); ingredient of fog screen (U. S. Pat. 1,358,084).
Technical Service:
Experienced chemists are available to aid with your problems.
Prompt Delivery:
Delivery made from stock . . . from single drums to carloads . . . crystals packed in 100 lb. fibre drums . . . solution in 50 lb. and 125 lb. carboys and 600 lb. lined drums.
EDWAL
LABORATORIES, INC.
Plant and Office . . .
RINGWOOD, ILLINOIS
Write for working samples and price quotations.


# Imports at United States Ports

## New York

ABURAGAREI OIL—3 dms, Public National Bank, Yokohama
ACETYLENE TETRABROMIDE—100 cs, Fine Organics Inc, London
ACETYLSALICYLIC ACID—300 cs, J G Smith, Interocean Co, Hamburg
ALCOHOL OCTYLDECYL—62 dms, Theobald Industries, London
ACONITE ROOT—20 bgs, R J Prentiss & Co, Trieste
ALMOND OIL—10 dms, Marseille
ALTHEA LEAVES—9 bls, Venice
AMMONIUM CARBONATE—50 dms, Chemical Manufacturing Co, Liverpool
CHLORIDE—467 bgs, Chase National Bank, Rotterdam
ANILIN COLORS—40 cans, Ciba Co., Havre
36 dms, Hensel Bruckmann, Antwerp
1 bbl, Hensel Bruckmann, Antwerp
6 dms, General Dyestuffs, Manchester
8 kegs, General Dyestuffs, Manchester
66 dms, Heemsoth Kerner, Liverpool
20 kegs, Heemsoth Kerner, Liverpool
2 cks, Havre
23 dms, Sandoz Chemical Works, Genoa
47 dms, Sandoz Chemical Works, Genoa
ANTACID POWDER—2 cs, E Fougera, London
ANTIMONY—50 cs, Charles Tennant Sons, Havre
REGULUS—79 cs, Marseille
ARABIC GUM—350 bgs, Paul A Dunkel, Port Sudan
250 bgs, Thurston & Braidich, Port Sudan
254 bgs, T M Duche & Sons, Port Sudan
254 bgs, Guaranty Trust Co, Port Sudan
1,016 bgs, Central Hanover Bank, Port Sudan
31 bgs, Innis Speiden, Port Sudan
102 bgs, McKessons & Robbins, London
ARGOLS—190 bgs, Irving Trust Co, Lisbon
500 bgs, Tartaric Raw Materials Inc, Catania
ARRHENAL—1 pk, Gallard-Schlesinger, Havre
ASBESTOS FIBER—1,500 bgs, Union Asbestos & Rubber Co, Lourenco Marques
200 bgs, Commercial National Bank, Lourenco Marques
5,000 bgs, Johns Manville Co, Capetown
1,200 bgs, Beira
1,536 bgs, Johns Manville, Beira
6,500 bgs, Union Asbestos Rubber Co, Lourenco Marques
BABASSO OIL—100 tons, Colgate Palmolive Peet Co, Sao Luiz Do Maranaho
BARIUM SULPHATE—100 kegs, Conray Products Co, London
BEESWAX—23 bgs, H H Pike, Havana
115 bgs, Mercantile Metal & Ore, Rio de Janeiro
218 bgs, Guaranty Trust Co, Lisbon
165 blocks, L Luzzato, Lourenco Marques
65 bgs, Robinson Wanger & Co, Dar Es Salaam
86 bls, J P Eberhart, Rotterdam
930 pks, Port Sudan
63 blocks, F H Paul & Stein, Luando
10 bgs, Cornelius Products Co, Lagos
40 pks, J H Schroeder, Beira
101 bgs, Chase National Bank, Lisbon
24 bgs, Geck Trading Co, Ciudad Trujillo
21 bgs, Smith & Nichols, Port Au Prince
BENZOIN GUM—27 bdls, R E Apelt, Singapore
BERGAMOT OIL—21 qu cs, Fritzsche Bros, Messina
8 half cs, LoCurto & Funk, Messina
14 qu cs, Citrus & Allied Essential Oils, Messina
20 half cs, Citrus & Allied Essential Oils, Messina
8 qu cs, Felton Chemical Co, Messina
BERYL ORE—142 bgs, Watson Geach & Co, Capetown
BETANAPHTHOL FLAKES—142 bgs, Heemsoth Kerner, Liverpool
BISMUTH METAL—14 cs, Derby & Co, Antwerp
BOIS DE ROSE OIL—18 dms, Orbis Products, Manaus
18 dms, LoCurto & Funk, Manaus
10 dms, Ungerer & Co, Manaus
BONE—24 bgs, International Packers Commercial, La Plata
711 bgs, International Packers Commercial, Santos
CRUSHED—5,248 bgs, Tupman Thurlow, Buenos Aires
BUCHU LEAVES—6 bls, J L Hopkins, Capetown
BUTTONLAC—15 bgs, Mac Lac Co, Calcutta
CADMIUM—21 cs, National City Bank, Melbourne
6 cs, Chemical Bank & Trust Co, Melbourne
50 cs, Mercantile Metal & Ore Corp, Antwerp
21 cs, F Kramarsky, Kobe
21 cs, Grace National Bank, Kobe
CALCIUM LACTATE—45 kegs, Gallard Schlesinger Chemical Corp, Rotterdam
CARAWAYSEED—100 bgs, Catz American Seed Corp, Rotterdam
100 bgs, R J Spitz Co, Rotterdam
CARDAMOM—25 cs, R E Wilcox, Calcutta
CARMINE LUSTER COLOR—1 cs, Hanovia Chemical Co, Hong Kong
CARNAUBA WAX—375 bgs, Chase National Bank, Parnaiba
188 bgs, Cornelius Products, Parnaiba
250 bgs, Wessel Duval, Parnaiba
63 bgs, J W Hanson, Parnaiba
188 bgs, Stein Hall & Co, Parnaiba
200 bgs, American Union Transport, Fortaleza
111 bgs, Stein Hall, Fortaleza
79 bgs, Hemisphere Export Co, Fortaleza
98 bgs, J W Hanson, Fortaleza
126 bgs, National Products Corp, Fortaleza
212 bgs, F B Ross, Bahia
52 bgs, Wax & Rosin Products, Bahia
CASEIN—500 bgs, American British Chemical Supplies, Buenos Aires
1,000 bgs, Crawford Co, Buenos Aires
1,000 bgs, E Lang, Buenos Aires
700 bgs, Borden Co, Buenos Aires
2,400 bgs, Bank of Manhattan, Melbourne
500 bgs, Borden Co, Buenos Aires
725 bgs, National City Bank, Lisbon
243 bgs, Chase National Bank, Ponta Delgada
CASHEWNUT SHELL LIQUID—300 dms, Fortaleza
26 dms, Donahue Varnish Co, Madras
CASSIA—500 bdls, B Gopaldas, Singapore
200 bls, H M Newhall, Hong Kong
400 bls, A G Dunn, Hong Kong
200 bls, K H Landes, Hong Kong
700 bls, Wah Chang Corp, Hong Kong
200 bls, Max Van Pels, Hong Kong
100 bls, Knickerbocker Mills, Hong Kong
300 bls, C M Van Sillevoldt, Hong Kong
300 bls, Arnhold & Co, Hong Kong
300 bls, R J Spitz Co, Hong Kong
200 bls, LoCurto & Funk, Hong Kong
200 bls, B H Old, Hong Kong
100 bls, Van Loan & Co, Hong Kong
200 bls, Knickerbocker Mills, Hong Kong
200 bls, C T Wilson, Hong Kong
536 bls, K H Landes, Hong Kong
100 bls, Bankers Trust Co, Hong Kong
383 bls, Internatio Rotterdam, Rotterdam
150 bls, C M Van Sillevoldt, Hong Kong
700 bls, A G Dunn, Hong Kong
200 bls, W M Allison, Hong Kong
150 bls, Wah Young Co, Hong Kong
OIL—5 dms, Ungerer & Co, Hong Kong
3 dms, George Luecders, Hong Kong
5 dms, Fritzsche Bros, Hong Kong
CASTOR BEANS—10,024 bgs, Baker Castor Oil Co, Bahia
1,694 bgs, Spencer Kellogg & Sons, Salvador
5,079 bgs, Baker Castor Oil Co, Bahia
1,180 bgs, Spencer Kellogg & Sons, Fortaleza
3,120 bgs, Garnac Grain Co, Calcutta
6,180 bgs, Ralli Bros, Calcutta
5,430 bgs, Ralli Bros, Madras
340 bgs, Tunley & Co, Dar Es Salaam
1,430 bgs, Tunley & Co, Bangkok
5,407 bgs, Ralli Bros, Calcutta
4,581 bgs, North American Continental Co, Fortaleza
1,400 bgs, Baker Castor Oil Co, Manta
338 bgs, Spencer Kellogg, Port au Prince
CASTOR OIL—398 tons, Belem
217 tons, Jerome International Co, Belem
250 tons, Hardesty Chemical Co, Belem
CEDRAT OIL—4 hlf cs, Messina
CELERYSEED—70 bgs, Marseilles
170 bgs, Becker Mayer Seed Co, Bombay
CHARCOAL—2,000 bgs, Greene Trading Co, Colombo
1,000 bgs, Temperlup, Haselehurd Co, Colombo
1 cs, Gondrand Co, Havre
CHEMICALS—101 bbls, Marks & Coyle, Hamburg
5 dms, European Chemical Co, Liverpool
60 cks, Davies Nitrate Co, Rotterdam
252 dms, Bergstrom Trading Co, Gothenburg
1 cs, Liverpool
82 cks, D W Hickey, Rotterdam
AROMATIC—2 cs, Bourjoris Co, Havre
1 ck, Bourjoris Co, Havre
CHILLIES—50 bls, Frank Tea & Spice Co, Kobe
112 bls, Kellys America Co, Kobe
100 bgs, Becker Mayer Seed Co, Kobe
47 bgs, J Holt, Mombasa
100 bgs, K H Landes, Kobe
CHLOROPHYLL—8 dms, Airkem Inc, London
CHROME ORE—5,376 tons, E J Lavino, Lourenco Marques
2,700 tons, Metallurg Inc, Fethive-Gozek
CONCENTRATES — 5,500 tons, Metallurg, Inc, Izmir
CHROMIC ACID—100 dms, Philipp Bros, Hamburg
75 dms, Hudson Shipping Co, Rotterdam
CINCHONIDINE SULPHATE—7 cs, Chas L Huisking, Hamburg
CINNAMON QUILLS—50 bls, J H Vavasseur, Colombo
CITRONELLA OIL—20 dms, Lo Curto & Funk, Hong Kong
30 dms, A Maschmeijer Jr, Hong Kong
27 dms, Chevalier & O'Connor, Colombo
23 dms, Internatio Rotterdam, Tandjong Priok
29 dms, Givaudan Delawanna, Tandjong Priok
COALTAR COLORS—26 dms, C A Haynes, Rotterdam
DYE—5 dms, Kaufman & Vinson, Bremen
INTERMEDIATES—25 dms, C A Haynes, Rotterdam
COCOA BUTTER—417 bbls, Woodward & Dickerson, Santos
EXPELLER CAKE—357 bgs, General Cocoa Co, Bahia
COCONUT OIL—200 tons, Manila
274 tons, Bank of California, Zamboanga
190 tons, Pacific Vegetable Oil Co, Manila
200 tons, Manila
COD OIL—450 dms, Nopco Chemico Co, St Johns
100 dms, Atlas Refinery Inc, St Johns
60 dms, Bowring & Co, St Johns
100 dms, Martin Dennis Co, St Johns
25 dms, Arista Oil Products, Halifax
150 dms, Nopco Chemical Co, St Johns
CODLIVER OIL—300 dms, Peder Devold Oil Co, Aalesund
206 dms, Reykjavik
100 dms, Thompson Hayward Chem Co, Reykjavik
151 dms, Chas L Huisking, Oslo
COLOMBO ROOT—250 bgs, R J Prentiss, Mombasa
COLORING MATERIALS, TEXTILE—2 dms, Heemsoth Kerner, Liverpool
COLORS, BLUE—50 dms, Van Oppen & Co, Manchester
COLUMBITE ORE—896 bgs, Union Carbide & Carbon Co, Lagos
COPAL GUM—64 bgs, Gillespie-Rogers-Pyatt, Singapore
800 bgs, U S Industrial Chem Co, Matadi
200 bgs, O G Innes Corp, Matadi
175 bgs, Gillespie-Rogers-Pyatt, Matadi
203 bgs, France, Campbell & Darling, Matadi
4 bgs, J H Brown, Zanzibar
COPPER CYANIDE—34 dms, W F Eissing, Hamburg
COPRA—700 tons, El Dorado Oil Works, Zamboanga
650 tons, Jolo
CORIANDER OIL—11 cs, Traders Commercial Corp, Rotterdam
CORUNDUM ORE—2,243 bgs, C Tennant Sons, Lourenco Marques
286 tons, Charles Tennant, Lourenco Marques
500 bgs, Charles Tennant Sons, Beira
COTTON LINTERS—463 bls, Williamson Northrup, Santos
532 bls, New England Waste Co, Santos
91 bls, O'Brien Products, Gdynia
CREAM OF TARTAR—200 bbls, T M Duche & Sons, Barcelona
CRESYLIC ACID—298 dms, Rotterdam
100 dms, Washine National Sands, Manchester
93 dms, Charles Page, Manchester
55 dms, Chematar Inc, Manchester
150 dms, Tar Residuals, Manchester
100 dms, American Cyanamid Co, Manchester
110 dms, American British Chemical Supplies, Sydney
270 dms, American Cyanamid Co, London
50 dms, Philip Bros, Liverpool
100 dms, George F Smith, Liverpool
168 dms, Washine National Sands, Liverpool
75 dms, W D Neuberg, Liverpool
334 dms, H A Gogarty, Liverpool
CUBE ROOT—1,926 bls, Astoria Pan American, Iquitos
2,294 bls, Hecht Levis & Kahn, Iquitos
CUMINSEED—500 bgs, Khosrovashahi Co, Karachi
CUTTLEFISH BONE—200 cs, Venice
40 cs, Bordeaux
DAMMAR GUM—210 bgs, U S Industrial Chemicals, Singapore
7 cs, O G Innes Corp, Bangkok
652 bgs, O G Innes Corp, Singapore
342 cs, S Winterbourne, Singapore
DIACETYL—4 cs, Noradel Agence Corp, Rotterdam
DOGFISHLIVER OIL—11 dms, Wilbur Ellis, Capetown
DOGWOOD BARK—45 bgs, S B Penick & Co, Kingston
DRUGS—44 bgs, Peek & Velsor, Rotterdam
6 dms, Lo Curto & Funk, London
DUBOISIA LEAVES—33 bls, National City Bank, Sydney
DYESTUFFS—52 dms, Heemsoth Kerner, Liverpool
200 dms, Sandoz Chemical Works, Rotterdam
28 dms, Hensel Bruckmann, Antwerp
13 dms, General Dyestuff Corp, Oslo
EGG YOLK—168 cs, Bazarsky & Co, Taku Bar
ESSENTIAL OILS—35 dms, Seville
3 dms, Fritzsche Bros, Trieste
1 cs, Fritzsche Bros, Trieste
22 pks, George Uhe, Marseille
1 cs, Houbigant Inc, Marseille
5 dms, Dodge & Olcott, Singapore
15 dms, Dogde & Olcott, Hong Kong
3 cs, Stern Henry, Havre
15 dms Avia Co, Hong Kong
10 dms, Seville
EUCALYPTUS OIL—11 dms, Fritsche Bros, Mombasa
18 dms, Commercial Banking Co, Melbourne
12 dms, Lo Curto & Funk, Santos
FERRO CHROMIUM—1,000 cs, Yokohama
35,496 lbs, Yokohama
TUNGSTEN—167 dms, Continental Ore Corp, Marseille
50 dms, National City Bank, Yokohama
FERTILIZER—37 bls, National Bank of Aust, Melbourne
38 bls, E S & A Bank, Melbourne
4 bls, Chase National Bank, Sydney
1,000 bgs, Bank of Athens Trust Co, Copenhagen
1,525 bgs, American Cyanamid Co, Copenhagen
FUEL OIL—10,000 bbls, Asiatic Petroleum Corp, Curacao

FUEL OIL—101,145 bbls, Paragon Oil Co, Curacao
458,681 bbls, Esso Export Corp, Aruba
104,147 bbls, Esso Export Corp, Caripito
101,000 bbls, Mexican Petroleum Corp, Aruba
10,000 bbls, Asiatic Petroleum Corp, Cuaraco
GALANGAL ROOT—100 bls, W E Martin, Hong Kong
168 bls, S B Penick & Co, Hong Kong
GALLIC ACID—5 dms, American Dyewood Co, London
GALLNUTS—420 bgs, Zinsser & Co, Hong Kong
60 bkts, R Desco, Hong Kong
850 bgs, Zinsser & Co, Taku Bar
9 bgs, National City Bank, Beirut
GELATIN—220 bgs, Transatlantic Animal By-Products, Durban
224 bgs, Transatlantic Animal By-Products, Durban
400 bgs, C B Hewitt & Bros, Durban
GERANIUM OIL—1 cs, W Hudnut, Havre
GHATTI GUM—136 bgs, Paul A Dunkel, Bombay
316 bgs, Innis Speiden, Bombay
GINGER—10 cs, S M Wolff, Hong Kong
GINSENG ROOT—1 cs, Chase National Bank, Kobe
GLUE—200 bgs, Glasgow
200 bgs, United Hat Fur Cutters, London
FISH—4 bbls, Harry Dixon & Sons, Aalesund
STOCK—120 pks, J Gorvers, Barranquilla
66 bls, Stern Morgenthau Co, Buenos Aires
GLYCERIN—12 dms, H P Casado, Havana
195 dms, Chemical Bank & Trust Co, Marseille
22 dms, C J Schellings, Rotterdam
600 bgs, Corn Exchange Bank, Bombay
167 dms, F H Lenway Co, Calcutta
190 dms, New York Trust Co, Liverpool
DYNAMITE—83 dms, Tupman Thurlow, Buenos Aires
SOAPLYE—173 dms, Corn Exchange Bank, Buenos Aires
235 tons, Procter & Gamble, Manila
16 dms, Bunge Corp, Buenos Aires
54 dms, International Packers Commercial, Montevideo
224 tons, Tupman Thurlow, Buenos Aires
55 dms, L Pasternak, Kingston
GRAPHITE—1,026 bgs, Asbury Graphite Mills, London
150 bgs, Charles Pettinos, Havre
600 bgs, C Pettinos, Bremen
750 bgs, Joseph Dixon Crucible Co, Colombo
DUST—200 bgs, F L Kraemer, London
GUAIAC GUM—33 bgs, Geck Trading Co, Ciudad
GUAIACWOOD OIL—7 cs, George Uhe Co, Buenos Aires
17 cs, Parnex & Co, Buenos Aires
GYPSUM, CRUDE—22,711 tons, U S Gypsum Co, Hantsport
2,600 tons, Newark Plaster Co, Walton
9,520 tons, National Gypsum Co, Dingwall
HENBANE LEAVES—7 bls, Kellys American Co, Hamburg
HENNA LEAVES—170 bgs, P O Hoffmann, Algiers
HERBS—20 bls, Lo Curto & Funk, Rotterdam
HEXAMETHYLENETETRAMINE — 36 dms, Bluefries, Inc, Antwerp
HOOF MEAL—874 bgs, Elbert & Co, Buenos Aires
IPECAC ROOT—10 bgs, Gillespie & Co, Cartagena
IRISHMOSS—50 bls, J Wolf, Havre
100 bgs, T M Duche & Sons, Havre
IRON OXIDE—448 bgs, Whittaker, Clark & Daniels, Liverpool
220 bgs, T H Deutz, Bremen
2,650 bgs, R Coulston, Bremen
435 bgs, C J Osborn, Malaga
100 bbls, Whitaker, Clarke & Daniels, Malaga
JUNIPER BERRIES—100 bgs, Leghorn
KARAYA GUM—200 cs, Meer Corp, Bombay
315 bgs, Stein Hall, Bombay
264 bgs, Thurston & Braidich, Bombay
255 bgs, Genoa
KAURI GUM—36 bgs, S Winterbourne, Auckland
120 bgs, U S Industrial Chemicals, Auckland
KYANITE ORE—143 tons, Golwynne Chemical Corp, Mombasa
450,688 lbs, Golwynne Chemicals, Mombasa
LAMINARIA MEAL—100 bgs, Peek & Velsor, Aalesund
LAVANDIN OIL—25 dms, Chemical Bank & Trust Co, Marseille
LAVENDER OIL—3 cks, Havre
SPIKE—11 dms, Alicante
LEMON JUICE—5 bbls, Manufacturers Trust Co, Messina
OIL—10 half cs, Messina
100 qtr cs, Bank of Manhattan Co, Messina
50 qtr cs, Corn Exchange Bank, Messina
LEMONGRASS OIL—18 dms, Volkart Bros, Cochin
6 dms, French American Bank, Cochin
LICORICE EXTRACT—606 bgs, W E Martin, Izmir
LIME JUICE—11 bbls, Citrus & Allied Essential Oils, Puerto Plata
LIVERMEAL—1,095 bgs, Wessel Duval, Buenos Aires
1,000 bgs, Wessel Duval, Montevideo
LOCUST BEAN GUM—600 bgs, Stein Hall, Pireus
200 bgs, Genoa
400 bgs, Stein Hall & Co, Genoa
280 bgs, J M Duche & Sons, Genoa
100 bgs, Innis, Speiden, Genoa
100 bgs, Bank of N Y, Liverpool
384 bgs, Bank of New York, Lisbon
LOGWOOD EXTRACT—515 cks, American Dyewood Co, Kingston
MACE—5 bxs, Becker, Mayer Seed Co, Port of Spain
89 cs, Uno Shipping Co, Rotterdam
MAGNESITE—2,400 bgs, Golwynne Chemical Corp, Madras
MAGNESIUM CARBONATE—26 cs, Intermaritime Forwarding Co, Havre
55 cs, Genoa
25 cs, Manufacturers Trust Co, Havre
1,160 bgs, Reheis Co, Liverpool
MANGROVE EXTRACT—1,200 bgs, Saxe Cutch Corp, Singapore
MARJORAM LEAVES—42 bls, Louis Furth, Marseille
148 bls, Marseille
112 bls, Louis Furth, Marseille
MEDICINAL HERBS—83 bgs, Kellys American Co, London
120 bgs, Messina
LEAVES—25 cs, J L Hopkins, Rotterdam
ROOT—36 bgs, Barcelona
10 bgs, S B Penick & Co, Hong Kong
3 cs, S B Penick & Co, Leghorn
SEED—400 bgs, S B Penick, Algiers
20 bgs, William Martin, Marseille
9 bgs, S B Penick & Co, Trieste
28 bgs, S B Penick & Co, London
MENTHOL—75 cs, Mennen Co, Hong Kong
60 cs, Paul A Dunkel, Hong Kong
100 cs, Norda Essential Oils, Hong Kong
50 cs, Biddle Sawyer, Hong Kong
50 cs, Bristol Myers Co, Hong Kong
10 cs, Magnus, Mabee & Reynard, Hong Kong
25 cs, Kian Gwan Co, Hong Kong
25 cs, Sembodja Co, Hong Kong
10 cs, Guaranty Trust Co, Hong Kong
10 cs, J Berlage, Hong Kong
10 cs, China Trading & Indust Corp, Hong Kong
125 cs, Cardam Trading Co, Rio De Janeiro
20 cs, R J Prentiss & Co, Hong Kong
25 cs, J Berlage, Hong Kong
25 cs Arnhold & Co, Hong Kong
25 cs, Consumers Import Co, Taku Bar
25 cs, Fallek Products Co, Taku Bar
SYNTHETIC, RACEMIC—2 cs, Bluefries Inc, Rotterdam
MERCURY PHENATE—12 dms, C A Redden, Liverpool
MICA—7 cs, Minerals & Insulation Co, London
41 cs, Asheville Schoonmaker, London
130 cs, Cornelis & Suhr, London
211 cs, Ford Radio & Mica Corp, London
25 cs, Sigbert Loeb, London
50 cs, Asheville Schoonmaker, Madras
25 cs, United Mineral & Chemical Co, Madras
456 cs, Cornelis & Suhr, Madras
300 cs, Western Hemisphere Raw Materials Co, Santos
MICA—35 cs, Eugene Munsell, Dar Es Salaam
1 cs, Spruce Pine Mica Co, Calcutta
50 cs, Cornelius & Suhr, Calcutta
94 cs, Eugene Munsell, Calcutta
150 cs, Hal Delphin, Calcutta
105 cs, Westinghouse Elec, Calcutta
25 cs, Habers Export Agencies, Calcutta
95 cs, Sigbert Loeb, Calcutta
25 cs, Credit Suisse, Calcutta
119 cs, Asheville Schoonmaker, Calcutta
50 cs, Siegfried Cussell, Calcutta
80 cs, Schwab Bros, Calcutta
163 cs, Manchard Trading Co, Calcutta
55 cs, S Gaguine Co, Buenos Aires
140 cs, Minerals & Insulation, Buenos Aires
100 cs, S Cussell, Buenos Aires
25 cs, Cons Mineral & Insulation, Calcutta
80 cs, Cornelis & Suhr, Calcutta
325 cs, Eugene Munsell, Calcutta
25 cs, United Mineral & Chemical Co, Luanda
248 cs, Sylvania Electric Products, Rio De Janeiro
26 cs, Interocean Trade Co, Rio De Janeiro
61 cs, Westinghouse Elec Co, Luanda
1 cs, Calcutta
241 cs, Gillespie-Rogers-Pyatt, Calcutta
50 cs, Ford Radio & Mica Co, Calcutta
4 cs, Schwab Bros, Calcutta
210 cs, United Mineral & Chem Co, Calcutta
40 cs, Minerals & Insulation, Calcutta
154 cs, Asheville Schoonmaker, Calcutta
236 cs, James F Garneau, Calcutta
10 cs, United Mineral & Chemical Co, Rio De Janeiro
32 cs, Western Hemisphere Raw Materials, Rio De Janeiro
MOLASSES—50 cs, Honey House, Brisbane
MONTAN WAX—3,000 bgs, Strohmeyer & Arpe, Hamburg
MURIATIC ACID—75 cs, Bergstrom Trading Co, Gothenburg
MUSTARD SEED—130 bgs, Naples
100 bgs, Amaren Trading Corp, London
MYROBALANS — 4,509 bgs, Barkey Import Co, Bombay
NAPHTHALENE—1,875 bgs, Rotterdam
250 bgs, Ferrotar Corp, Rotterdam
600 bgs, Gallard Schlesinger Chemical Corp, Antwerp
NEROLI OIL — 4 cs, Manufacturers Trust Co, Seville
NICKEL ACETATE—2 dms, Bluefries Inc, Antwerp
SULPHATE—16 bbls, Emerco Trading Corp, Hamburg
200 bgs, E F Drew & Co, Hamburg
NITROGENOUS MATERIAL—500 bgs, American Home Products, Genoa
NUTMEGS—8 bgs, Becker Mayer Seed Co, Port of Spain
NUX VOMICA—480 bgs, Volkart Bros, Calcutta
OCHRE—200 bgs, T H Deutz, Capetown
OCOTEA CYMBARUM OIL—14 dms, Geismar & Co, Itajai
OLIVE OIL—9 dms, Sterling National Bank, Seville
29 dms, Manufacturers Trust Co, Seville
28 dms, National City Bank, Seville
18 dms, Credit Suisse, Seville
49 dms, Central Hanover Bank, Seville
15 dms, Hellenic Bank, Seville
45 dms, Seville
54 dms, Public National Bank, Seville
17 dms, Sterling National Bank, Malaga
90 dms, Credit Suisse, Malaga
103 dms, National City Bank, Malaga
272 dms, Manufacturers Trust Co, Malaga
73 dms, Hellenic Bank, Malaga
17 dms, Chase National Bank, Malaga
15 dms, Public National Bank, Malaga
36 dms, American Trust Co, Seville
15 dms, Cleveland Trust Co, Tarragona
460 dms, Marine Midland Trust Co, Tarragona
478 dms, J H Schroder, Tarragona
35 dms, American President Lines, Tarragona
28 dms, First National Bank Chicago, Tarragona
20 dms, Central Hanover Bank, Tarragona
40 dms, Public National Bank, Tarragona
158 dms, Hellenic Bank & Trust, Tarragona
40 dms, Sterling National Bank, Tarragona
86 dms, Nationa City Bank, Barcelona
343 dms, Credit Suisse, Barcelona
146 dms, Manufacturers Trust Co, Barcelona
25 dms, Mercantile Commerce Bank, Barcelona
880 dms, Credit Suisse, Tarragona
350 dms, National City Bank, Tarragona
14 dms, Irving Trust Co, Tarragona
188 dms, Brown Bros, Harriman, Tarragona
250 dms, Manufacturers Trust Co, Tarragona
250 dms, Strohmeyer & Arpe, Algiers
1 dm, J Dos Santos, Lisbon
42 dms, American Trust Co, Seville
32 dms, Chase National Bank, Seville
51 dms, Central Hanover Bank, Seville
102 dms, National Safety Bank, Seville
100 dms, National City Bank, Tunis
36 dms, Seville
17 dms, Naumes Fwdg Service, Barcelona
26 dms, Western Food Corp, Barcelona
4 dms, D'Avella Macaroni Co, Barcelona
76 dms, Public National Bank, Seville
232 dms, Trade Bank & Trust Co, Seville
12 dms, American President Lines, Seville
104 dms, American East Asiatic Trading Corp, Seville
66 dms, Uddo Taormina, Barcelona
33 dms, J L Selafani, Barcelona
33 dms, Chicago Macaroni, Barcelona
9 dms, National Salad Oil Co, Barcelona
172 dms, Norport Co, Barcelona
86 dms, Mawer-Golden-Annis, Barcelona
8 dms, V Formusa, Barcelona
17 dms, Paris Brokerage Co, Barcelona
637 dms, Chemical Bank & Trust, Seville
624 dms, Credit Suisse, Seville
67 dms, Brown Bros, Harriman, Seville
107 dms, Trade Bank & Trust Co, Seville
581 dms, Hellenic Bank & Trust, Seville
24 dms, Bank of Manhattan Co, Seville
343 dms, National City Bank, Seville
729 dms, Manufacturers Trust Co, Seville
256 dms, Manufacturers Trust Co, Seville
54 dms, Brown Bros, Harriman, Seville
68 dms, Chase National Bank, Seville
58 dms, Hellenic Bank & Trust Co, Seville
113 dms, National City Bank, Seville
192 dms, Central Hanover Bank, Seville
34 dms, Irving Trust Co, Seville
OPIUM—313 cs, Barr Shipping Co, Istanbul
ORANGE OIL—6 cs, George Lueders, Kingston
2 dms, Citrus & Allied Essential Oils, Puerto Plata
ORIGANUM LEAVES—60 bls, M J Golombeck, Lisbon
ORRIS ROOT—14 bls, Venice
ORTHOCRESOL—50 dms, International Commodities Co, Rotterdam
OURICURY WAX—13 bgs, J W Hanson, Rio de Janeiro
112 bgs, F B Ross, Salvador
238 bgs, Wessel Duval, Salvador
OX BILE—1 hgshd, Lo Curto & Funk, Glasgow
GALL—4 bbls, Tupman Thurlow, Havana
2 dms, Bank of New South Wales, Sidney
1 dm, Liverpool
GLANDS—4 cs, Universal Transport Corp, Dublin
PALM OIL—679 tons, Standard Bank of South Africa, Port Harcourt
798 tons, Balfour Guthrie, Matadi
PAPAIN—5 cs, S. B. Penick, Mombasa
7 cs, R. J. Prentiss, Mombasa
33 cs, S. B. Penick & Co, Mombasa
10 cs, Dalton Cooper, Mombasa
4 cs, Charles L. Huisking, Mombasa
76 pks, Charles L Huisking, Tanganyika
4 cs, Charles L. Huisking, Colombo
PAPRIKA—200 bgs, A. A. Sayia, Alicante
300 bgs, P. H. Petry, Alicante
PEATMOSS—2,885 bls, Premier Peatmoss Corp, Dublin
600 bls, Premier Peatmoss Corp, Bremen
500 bls, Brussels Corp, Bremen
350 bls, Premier Peatmoss Corp, Bremen


We take *Rare* organics out of the "rare" class for you

For some organics, a single kilogram may be enough to fill your production requirements for months. Or you may need ten kilos—or a hundred—of a compound or a purity grade in which world consumption has been no more than a hundred grams a year.

When your operations call for an organic hitherto regarded as "rare," ask Eastman to make it for you. Chances are that our long and diversified experience in supplying over 3300 compounds to the world's laboratories can bring down to the practical level the cost of the organic you need.

For more information and quotations send a list of your requirements to DISTILLATION PRODUCTS *industries*, Eastman Organic Chemicals Department, Rochester 3, N. Y. (Division of Eastman Kodak Company).

EASTMAN KODAK DPi Eastman Organic Chemicals for science and industry

*Also... vitamins A and E... distilled monoglycerides... high vacuum equipment*

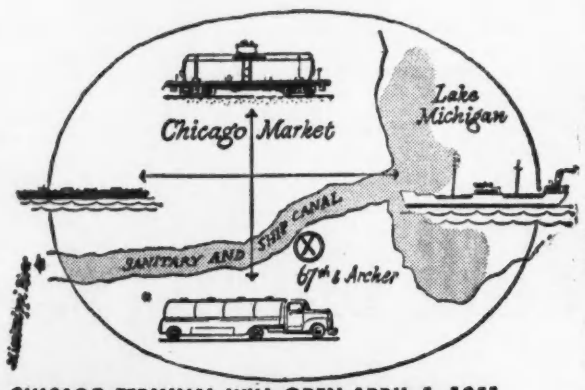
DIIODOHYDROXYQUINOLINE USP
The effective amebacide and trichomonbacide
B. L. LEMKE & CO. INC. Manufacturing Chemists
Plant & Offices: Lodi, N. J. Telephone—New York: Bryant 9-0677—Lodi: Prescott 7-5805

SUMNER CHEMICAL
ACETYL-P-AMINOPHENOL
*The Modern Analgetic*
The rational approach to the treatment of minor aches and pains is through the use of ACETYL-P-AMINOPHENOL, the modern analgetic. No toxic manifestations, neither G-I nor G-U irritations and a non-narcotic relief from pain that has to be experienced to be believed.
Technical Bulletin 4-120 on this product in preparation. Write for your copy!
*Try Sumner!*
SUMNER CHEMICAL COMPANY INC.
*Organic Chemicals*
ZEELAND, MICHIGAN
Offices: 6 East 45th Street, New York
MUrray Hill 2-7970

PENTAERYTHRITOL—3,000 bgs, Chemical Manufacturing Co, Glasgow
PEPPER, BLACK—80 bgs, Soensson & Cross, Bombay
160 bgs, Soensson & Cross, Bombay
80 bgs, Otto Gerdau, Bombay
160 bgs, Shovela Bros., Cochin
80 bgs, Virchand Panachand, Cochin
80 bgs, Mutual Spice Co, Cochin
PEPPERMINT OIL—5 cs, Jardine Matheson, Taku Bar
5 dms, Jardine Matheson, Taku Bar
PERCHLOROETHYLENE—157 dms, Elbert & Co, Rotterdam
47 dms, Bunge Corp, Rotterdam
PETITGRAIN OIL — 5 dms, Bush Aromatics, Buenos Aires
19 cs, International Packers Commercial, Montevideo
PETROLEUM CRUDE—103,751 bbls, Cities Service Oil, Amuay
125,563 bbls, Socony Vacuum Oil Co, Puerto La Cruz
122,422 bbls, Esso Standard Oil Co, Puerto La Cruz
115,550 bbls, Gulf Oil Corp, Puerto La Cruz
PHARMACEUTICALS—1 cs, Hoffman La Roche, Havre
PIMENTO—100 bgs, John Holt, Kingston
LEAF OIL—2 dms, Dodge & Olcott, Kingston
1 dm, George Lueders, Kingston
2 dms, Magnus Mabee & Reynard, Kingston
1 dm, W. J. Bush, Kingston
POLLACKLIVER OIL—9 dms, Nopco Chemical Co, Yokohama
50 dms, Corn Exchange Bank, Yokohama
43 dms, Yokohama
50 dms, Bank of California, Yokohama
POLYETHYLENE VIRGIN—72 bgs, Standard International Corp, London
SCRAP—208 bgs, Chase National Bank, Liverpool
POLYTHENE SHEETS—18 cts, Imperial Chemical Industries, Liverpool
POLYVINYL ALCOHOL—1 cs, Yokohama
CHLORIDE—22cs American Lucoflex, Harve
1 dm, Rotterdam
POPPYSEED—775 bgs, Catz American Seed Corp, Rotterdam
200 bgs, H. S. Cramer, Rotterdam
200 bgs, North Atlantic Seed Co, Rotterdam
25 bgs, Bierbaums Co, Rotterdam
200 bgs, Louis Furth, Rotterdam
100 bgs, Levy & Lewis, Rotterdam
POTASSIUM CARBONATE—783 bbls, Philipp Bros, Hamburg
CYANIDE—83 dms, Rosenthal Bercow, Hamburg
43 dm, W. F. Eissing, Hamburg
43 dms, Arnida Products, Hamburg
107 dms, Aceto Chem Co, Hamburg
1 tin, Aceto Chem Co, Hamburg
40 dms, Philipp Bros, Rotterdam
100 dms, Liverpool
491 dms, E. I. Du Pont De Nemours, Liverpool
FERRICYANIDE—30 kegs, Van Oppen & Co, Liverpool
60 kegs, Bank of Manhattan, Rotterdam
MURIATE—454 tons, French Potash & Import Co, Antwerp
PSYLLIUM SEED—814 bgs, Parke Davis, Bombay
69 bgs, J L Hopkins, Bombay
130 bgs, S B Penick & Co, Bombay
PYRETHRUM FLOWERS—57 bls, P O Hoffman, Dar Es Salaam
125 bls, John Powell, Mombasa
876 bls, U S Industrial Chemicals, Mombasa
31 bls, McLaughlin Gormley & King, Mombasa
125 bls, J Powell, Mombasa
625 bls, U S Industrial Chemicals, Mombasa
253 bls, U S Industrial Chemicals, Dar Es Salaam
53 bls, S B Penick & Co, Dar Es Salaam
QUEBRACHO EXTRACT—6,288 bgs, Tanimex Corp, Buenos Aires
1,041 bgs, Olson Sales Agency, Buenos Aires
3,235 bgs, River Plate Import & Export, Buenos Aires
QUICKSILVER—100 flasks, Ferro Metal & Chemical Corp, Cadiz
400 flasks, International Minerals & Metals Corp, London
QUININE SULPHATE—11 cs, Chas L Huisking Hamburg
RAPESEED—220 bgs, Livingston Seed Co, Rotterdam
RHUBARB ROOT—24 cs, S B Penick & Co, Hong Kong
8 cs, H J Prentiss & Co, Hong Kong
15 bgs, S B Penick & Co, Bombay
ROSEMARY LEAVES—160 bls, M J Golombeck, Lisbon
OIL—6 bbls, Alicante
ROSIN—8 cs, National Bank of Greece, Piraeus
RUTILE SAND—1,780 bgs, Millmaster Chemical Co, Brisbane
SAGE—120 bgs, Colonial Commerce Co, London
SAGO FLOUR—1,120 bgs, Stein Hall & Co, Singapore
274 bgs, W R Grace & Co, Singapore
SANDALWOOD—150 bgs, George Lueders, Bombay
SARSAPARILLA ROOT—11 bls, S B Penick & Co, Kingston
SEAWEED—70 bls, W M Allison, Penang
SEEDLAC—200 bgs, Mantrose Corp, Calcutta
400 bgs, W Zinsser, Calcutta
100 bgs, Gillespie Rogers Pyatt, Calcutta
200 bgs, Haeuser Shellac Co, Calcutta
400 bgs, C H Timm, Calcutta
133 bgs, Internatio Rotterdam, Singapore
200 bgs, W Zinsser, Calcutta
100 bgs, Dings & Schuster, Calcutta
600 bgs, C H Timm, Calcutta
945 bgs, C H Timm, Bangkok
266 bgs, Bangkok
75 bgs, J Berlage, Bangkok
341 bgs, Mantrose Co, Bangkok
SENNA LEAVES—25 bls, R J Prentiss & Co, London
SESAME SEED—168 bgs, Archibald & Kendall, Hong Kong
OIL—10 cs, Young P Lee Co, Hong Kong
6 cs, Chong Lung Co, Hong Kong
SHARKLIVER OIL—15 dms, Bank of California, Melbourne
4 dms, Wilbur Ellis, Capetown
12 dms, Chase National Bank, Yokohama
23 dms, Yokohama
SHEEP GALL—3 dms, Bank of New South Wales, Sydney
1 ck, Tupman Thurlow, Auckland
SHELLAC—100 bgs, Mantrose Corp, Calcutta
100 bgs, W Zinsser, Calcutta
714 bgs, William Zinsser, Calcutta
200 bgs, C H Timm, Calcutta
50 bgs, Colony Import & Export, Calcutta
100 bgs, R B Wilcox, Calcutta
200 bgs, Dings & Schuster, Calcutta
380 bgs, Mac Lac Co, Bangkok
3 cs, R E Wilcox, Bangkok
SIMARUBRA BARK—1 bl, S B Penick & Co, Kingston
SKATELIVER OIL—6 dms, Wilbur Ellis, Capetown
SNOEKLIVER OIL—4 dms, Wilbur Ellis, Capetown
SODA ASH—1,600 bgs, Havre
160 bgs, Omni Products Corp, London
4,150 bgs, Kristiansand
220 bgs, Manufacturers Chemical Co, Gothenburg
502 bgs, J M Baird, London
5,000 bgs, Dunkirk
300 bgs, Bordeaux
150 bgs, LoCurto & Funk, Hamburg
407 bgs, Elbert & Co, Hamburg
4,951 bgs, M W Hardy, Hamburg
CAUSTIC—50 dms, Republic Chemical Corp, Antwerp
34 dms, Mac Lac Co, Liverpool
34 dms, N Y Hanseatic Corp, Liverpool
SODIUM ACETATE—45 bbls, Imperial Chemical Industries, Liverpool
45 bbls, Imperial Chemical Industries, Liverpool
BICHROMATE—39 dms, Alltransport Inc, Hamburg
CYANIDE—50 dms, Arnida Products Co, Hamburg
100 dms, Aceto Chemical Co, Hamburg
140 dms, Bank of Athens, Copenhagen
111 dms, Bluefries Inc, Antwerp
HYPOSULPHITE—100 bgs, Liverpool
NITRITE—100 dms, Bunge Corp, Rotterdam
60 bbls, M W Hardy, Hamburg
264 dms, Merchants Bank of N Y, Rotterdam
75 cks, United Sterling Corp, Hamburg
222 dms, Chemical Manufacturing Co, Liverpool
PERBORATE TETRAHYDRATE—200 dms, Chemical Manufacturing Co, Liverpool
SESQUICARBONATE—672 bgs, Procter & Gamble, Liverpool
SULPHITE ANHYDROUS—1 dm, Liverpool
SOLELIVER OIL—1 dm, Chase National Bank, Yokohama
SOPHORA JAPONICA—336 bgs, Fallek Products Co, Hong Kong
SPEARFISH OIL—2 dms, Transocean Commerce Inc, Yokohama
STRAMONIUM LEAVES—51 bls, Venice
STRONTIUM CHLORIDE—46 dms, Marseilles
SWORDFISHLIVER OIL—1 dm, Maxim Chemical Co, Yokohama
TALC—12 cs, Barnett International, Havre
250 bgs, I. A. Solomon & Bros, Bordeaux
TANNIC ACID POWDER—2 dms, American Dyewood Co, Glasgow
TAPIOCA FLOUR—417 bgs, First National of Boston, Parnaiba
250 bgs, Sembodia Corp, Singapore
1500 bgs, Sembodia Corp, Singapore
1,000 bgs, Stein Hall, Imbituba
1500 bgs, Manhattan Paste & Glue Co, Itajai
6000 bgs, Stein Hall & Co, Itajai
1,500 bgs, Corn Exchange Bank, Puerto Plata
1,500 bgs, Stein Hall, Tandjong Priok
290 bgs, Internatio Rotterdam, Tandjong Priok
287 bgs, Catz American Co, Tandjong Priok
PEARLS—105 bgs, Stein Hall & Co, Tandjong Priok
150 bgs, Catz American Co, Tandjong Priok
TARTARIC ACID—200 kgs, Genoa


# GENERAL AMERICAN opens new Chicago Tank Storage Terminal!

## *Now!...Develop the rich midwest market at lowest possible cost!*




CHICAGO TERMINAL WILL OPEN APRIL 1, 1951

*Make the Midwest your market!* Develop the potential of this great inland industrial center. Enjoy all the advantages of your own private terminal . . . without risking capital . . . *without making any investment.*

The new terminal is ideally situated near Chicago's Clearing Industrial District at 67th and Archer on the Sanitary and Ship Canal. It's fully equipped with most modern facilities—special equipment guards against contamination of different types of liquids—protects against excessive evaporation. Everything for safe, profitable storage and complete distribution at lowest cost.

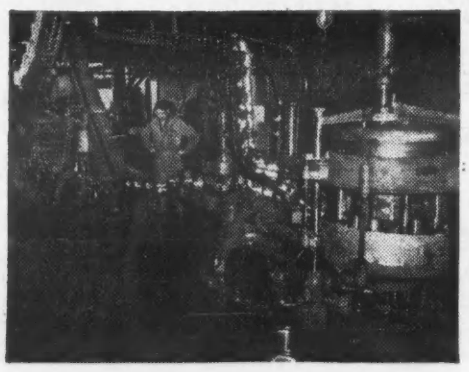
As a further aid, General American Tank Storage Terminal warehouse receipts represent the highest form of collateral. For financing, storage or distribution suggestions, call on your nearest General American representative.

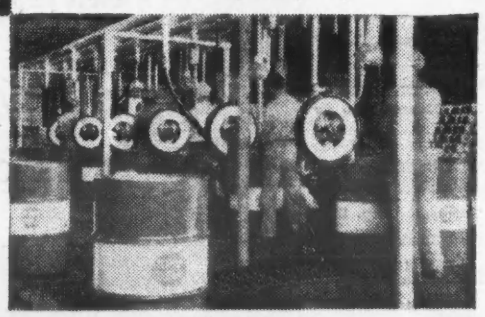
*Aerial view of Carteret, N. J. Terminal*

### Your petroleum products *packed in drums or barrels...*

With no investment in equipment, General American customers at Carteret, N. J., and Goodhope, La. enjoy all the convenience of private barreling and drumming.

Your own product . . . blended to your specifications, can be handled in this manner . . . packed and ready for quick distribution. These two terminals also offer complete facilities for rapid canning of petroleum products in all size containers including one-quart.





NOW IT'S FIVE STRATEGICALLY LOCATED TERMINALS EQUIPPED TO HANDLE ANYTHING THAT FLOWS THROUGH A PIPELINE—Alcohol, benzol, creosote, petroleum or vegetable oil, etc.

TANK STORAGE TERMINALS GENERAL AMERICAN TRADE MARK

**GENERAL AMERICAN TANK STORAGE TERMINALS**

*A Division of General American Transportation Corporation*

**135 SOUTH LA SALLE STREET • CHICAGO 90, ILLINOIS**

***WORLD'S LARGEST PUBLIC TANK STORAGE SYSTEM***

*Terminals at:* Chicago, Ill. • Carteret, N. J. • Goodhope, La. • Houston and Corpus Christi, Texas

TEA WASTE—1208 bgs, Citro Chemical Co., Calcutta
277 bgs, Colombo
THIOCOL—3 dms, Gallard-Schlesinger, Havre
3 cs, Gallard-Schlesinger, Havre
TIN TETRACHLORIDE—100 dms, Thermit Corp, Havre
TITANIUM ALUMINUM—300 dms, Liverpool
15 dms, Bank of Manhattan, Liverpool
DIOXIDE—120 cs, Chase National Bank, Genoa
TONKA BEANS—24 bbls, S. B. Penick & Co, Salvador
TRAGACANTH GUM—40 cs, Genoa
104 cs, American Express Co, Beirut
TRICHLOROETHYLENE—19 dms, John Dehne Co, Hamburg
90 dms, Elbert & Co, Rotterdam
17 dms, Uddehalm Co, Gothenburg
34 cks, United Sterling Corp, Hamburg

TUCUM KERNELS—2537 bgs, E. F. Drew Co, Sacluiz Do Haranaho
18,228 bgs, E F Drew, Parnaiba
TUNG OIL—470 dms, China Trade & Industrial Corp, Tsingtao
348 tons, Balfour Guthrie, Hong Kong
200 tons, China Trade & indust Corp, Hong Kong
208 tons, Trianon Overseas Co, Hong Kong
724 tons, Pacific Vegetable Oil, Hong Kong
400 tons, Hveton Corp, Hong Kong
157 tons, Murray Oil Products Co, Hong Kong
500 tons, Wah Chang Corp, Hong Kong
265 dms, Pacific Vegetable Oil, Taku Bar
UREA—410 bgs, J Henry Schroder, London
220 bgs, Leviant & Co, London
1,000 bgs, American Cyanamid Co, Liverpool
VALONIA CUPS—7,809 bgs, Barkey Importing Co, Izmir
VANILLA BEANS—116 cs, Thurston & Braidich, Marseille
70 cs, George Uhe & Co, Marseille
4 cs, Zanzibar
32 cs, J H Schroder, Havre
VEGETABLE WAX—56 bgs, Commercial Raw Materials, Rio De Janerio
25 cs, W Diehl, Kobe
34 cs, S J Mocallem, Kobe
66 cs, Kobe
WATTLE EXTRACT—1,228 bgs, River Plate Import & Export, Durban
504 bgs, Olson Sales Agency, Durban
WHITING—300 bgs, H J Baker, Liverpool
WOLFRAM ORE—297 bgs, Felix Kramarsky, Hong Kong
400 bgs, Westinghouse Electric Co, Melbourne
471 bgs, Overseas Metals & Ore Co, Bangkok
520 bgs, Leixoes
100 bgs, National City Bank, Lisbon
2 cs, Wah Chang Corp, Yokohama
67 bgs, National City Bank, Lisbon
485 bgs, National City Bank, Leixoes
WOOL GREASE—109 dms, Lanatex Products, Bremen
50 dms, Phoenix Oil Corp, Bremen
YEAST EXTRACT—62 cs, Gallagher & Ascher, Liverpool
ZINC SULPHATE—275 bbls, Oil & Chemical Products, Gdynia
ZIRCONIUM HYDROXIDE—31 cks, F H Berk, Liverpool
ZIRCON SAND—800 bgs, Dumont Shipping Co, Brisbane
2,980 bgs, Millmaster Chemical Co. Brisbane

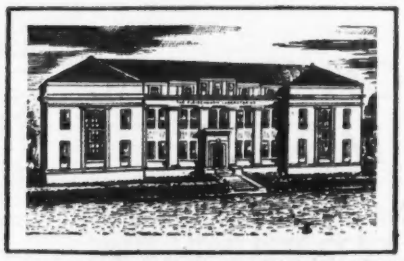
### *Baltimore*

BONE, CRUSHED—2,859 bgs, Transatlantic Animal By-Products Corp, Buenos Aires
MEAL—2,240 bgs, Transatlantic Animal By-Products Corp, Antwerp
POWDER—1,103 bgs, Credit Suisse, Dunkirk

—*Continued on page 70*


Dowe's means Dependable
PRODUCERS OF
FISH LIVER OILS
VITAMIN A CONCENTRATES
VITAMIN $D_2$
Dowe's Vitamins, Inc.
4800 S. RICHMOND STREET
CHICAGO 32, ILL.

FAIRMOUNT CHEMICAL CO., INC.
600 FERRY ST., NEWARK 5, N.J.
Thiosemicarbazide
Semicarbazide Hydrochloride


THE FLEISCHMANN LABORATORIES
*Research Headquarters For Natural Yeast Products*

Fleischmann's
"Naturally First—For Natural Yeast Factors"

**VITAMIN D PRODUCTS:** Hy-Dee Irradiated Dry Yeast, Irradiated Dry Yeast Type 700-H, Viosterol (Irradiated Ergosterol), Stabi-Dee Irradiated Ergosterol Product.
**B-COMPLEX AND YEAST PRODUCTS:** Pure Primary Grown Dry Yeasts (brewers' type), Bee-Flex Products, Yeast Extracts, Yeast Extract and Liver, Yeast Autolysate.
**YEAST DERIVATIVES:** Ergosterol Crystals, Nucleic Acid, Sodium Nucleate.

When you deal with Fleischmann's you can always rely on uniform high quality and dependability. To help you make good products better—to help formulate exciting new ones—we offer you not only the world's largest selection of natural yeast products and derivatives, but also research, manufacturing and merchandising "know-how."

SPECIAL PRODUCTS DIVISION
STANDARD BRANDS INCORPORATED
595 Madison Avenue, New York 22, N. Y.

*Unsurpassed Quality . . .*

GI rutin
Bright yellow in color . . . completely free from red pigment and chlorophyll . . . yields brilliantly clear alcohol solutions. Lower in quercitin and higher in rutin assay than the proposed standards require.
*Write today for latest price list of more than 100 G & I medicinal chemicals!*
GANE & INGRAM, INC.
MANUFACTURING CHEMISTS
43 W. 16th St., New York 11. phone: W Atkins 4-9404 cable: DRUGEXPORT

ANNOUNCEMENT
We take pleasure in announcing the association with our company of Mr. Joseph B umberg formerly of Lamax Chemical Corp., and Olivier Co., Inc.
CONRAY PRODUCTS COMPANY
510 AVENUE OF THE AMERICAS, NEW YORK 11, N. Y.
Tel. ORegon 5-2505

*ANNOUNCING*
NUCLEIC ACID
AND
SODIUM NUCLEATE
*FOR PROMPT DELIVERY*
The TREEMOND CO.
*Manufacturing Chemists*
153 WAVERLY PLACE, NEW YORK 14, N. Y.
WATKINS 9-5076 Cable Address: TREEMOND NEW YORK

# SYMBOL OF TRUST ✓ ✓ ✓

## WHAT PENICK MEANS TO YOU

- A complete line of over 5,000 items—virtually every raw material the pharmaceutical manufacturer requires.
- Highest quality products manufactured to exacting specifications under constant laboratory control.
- Research laboratories and scientifically trained staffs to maintain PENICK products up to latest standards.
- Years of experience in supplying the domestic and export markets and shipping customers' requirements promptly.

**ALWAYS A DEPENDABLE SOURCE OF SUPPLY FOR:**

BOTANICAL DRUGS
EXTRACTS OF BOTANICALS
ALKALOIDS AND GLYCOSIDES
OLEORESINS
RESINS
CONCENTRATIONS
RARE PLANT PRINCIPLES
AROMATIC CHEMICALS
VITAMIN CONCENTRATES
ESTROGENS
ESSENTIAL OILS
PERFUME COMPOUNDS
INSECTICIDES
SPICES
WATER-SOLUBLE GUMS

*The World's Largest Botanical Drug House*

**S. B. PENICK & COMPANY**

50 CHURCH STREET, NEW YORK 7, N. Y.
Telephone COrtlandt 7-1970

735 WEST DIVISION STREET, CHICAGO 10, ILL.
Telephone MOhawk 4-5651

**BOTANICAL DRUGS • ESSENTIAL OILS • MEDICINAL CHEMICALS • AROMATIC CHEMICALS**

## "A GOOD REPUTATION IS MORE VALUABLE THAN MONEY"*

Almost 2,000 years ago, when first recorded, these words had their merit. They have just as much merit today, and we heed them. When you buy Botanicals from Prentiss, you are backed by a reputation for pure quality, complete stocks and competitive service.

We offer a variety of stocks of both foreign and domestic Crude Drugs, in whole and milled form. Our extensive, controlled stocks allow you to buy what you need, when you need it.

*Buy from a Basic Source of Supply*

* Publius Syrus, Maxim 108, 42 B.C.

**RAX - - A NEW RODENTICIDE - - NOW AVAILABLE**

**Contains tasteless and odorless warfarin (W.A.R.F. Compound 42) which kills rats and mice by producing hemorrhage. Tested by government agencies, health departments, PCO's and farmers with 85-90% satisfactory results. Now available for professional use, for consumer packaging under private label or for packaging with prepared baits. For full information and price schedules, call or write:**

**PRENTISS DRUG & CHEMICAL CO., INC.**

FORMERLY R. J. PRENTISS & CO., Inc.

110 William Street, New York 7, N.Y. 9 So Clinton Street, Chicago 6, Ill

PLANTS: BROOKLYN, N.Y.

# Botanical Drugs, Spices, Gums

Strong and advancing prices for ergot, ipecac, Irish moss, Alexandrian senna, and Jamaica ginger were countered in very feeble fashion by declines in Chinese cantharides, boldo and uva ursi leaves, aided by a reasonably close division of price movements in condimental items, though the weight was on the downside in the latter materials. As to botanical demand, it was spotty for the most part and involved prompt requirements in most instances. The market index rose by reason of the strength in medicinal drugs and at 225.3 was 7.7 points above the index level in the previous week.

Consideration was given to the crop requirements in 1951 when a primary market collector issued a Winter buying-price list to cover the period between now and February 1 next. The list of 122 botanical drugs showed twenty-six changes. Of these, 73.1 percent were advances and 26.9 percent were declines.

The twenty-six drugs divided as follows:—Drugs costing collectors less than 25c. per pound, 65.4 percent. Those costing more than 25c., 34.6 percent. Of drugs in the first group, 76.5 percent are now priced above buying prices last September, and 23.5 percent are under September buying levels. Of botanics in the second group, 67 percent were raised over September buying levels and 33 percent were lowered.

These percentages suggest that the buying prices on low priced botanical drugs are being revised upward. Inventory shrinkage has forced the use of buying prices as a stimulant to collection activity. And they also suggest that high priced drugs have not lost much of their 1950 highs and are, indeed, being listed at higher buying levels even in the Winter period. However, of the 122 botanicals listed, 79 percent were unchanged from September buying levels.

## Barks

**Black Haw**—Buying prices show collectors willing to pay 5c. per pound more for tree bark as well as root bark than ruled at the end of the 1950 collection season.

**Butternut**—A new but tentative buying price list just issued reveals collectors offering 1c. less than they did last September.

**Cottonroot** — Buying prices now effective at the origin are 5c. per pound higher than they were at the end of last Summer.

## Berries

**Hawthorn**—Latest price postings from foreign parts show a 1½c. per pound rise in the export quotations on good quality merchandise.

**Horsenettel**—Primary market collectors now have buying prices that are 5c. per pound below levels in effect last Summer. Current buying levels are good until February 1 next.

## Flowers

**Chamomile**—Very firm, not plentiful, but not in wide demand for spot goods at the present time.

**Clover** — Domestic collectors have reduced paying-prices by 5c. per pound for red flowers to be collected in the future.

**Linden** — Shipment proposals from France posed very high prices to this market. Prices abroad were far over spot.

## *Imports Detained by FDA*

**Weed Ended November 24**

**New York**

Alum blocks, 5 cases: no name of product; no quantity of contents.
Caraway seed, 275 bags: damaged by soda ash.
Cassia, 300 bundles: filthy.
Cassia oil, 30 drums: not USP.
Cod oil, 489 drums: decomposed.
Coriander seed, 760 bags: filthy.
Ergot, 7 bags: not NF; filthy.
Ginger, 46 bags: decomposed.
Kola nuts, 230 bags: filthy.
Mace, 65 bags: filthy.
Moss, 294 bales: filthy.
Origanum leaves, 148 bags: filthy.
Pepper, black, 2,222 bags: filthy; moldy.
Poppy seed, 775 bags: damaged by soda ash.
Rosemary leaves, 25 bales: filthy.
Sage leaves, 40 bags: filthy.
Sesame seed, 338 bags: filthy.

## *Market Trends*

**Prices Advanced**

*Drugs*

Ergot, $1 per lb.
Ginger root, Jamaica No. 3, Jan.-Mar. shipment, 1c. per lb.
Ipecac root, whole, 50c. per lb.
powdered, 50c. per lb.
Irish moss, bleached, 1c. per lb.
Senna leaves, Alex., 2c. per lb.

*Other Articles*

Caraway seed, Dutch, 1c. per lb.
Cassia, Canton rolls, select, broken, ½c. per lb.
Honan, Yunnan, rolls, 2c. per lb.
Cloves, ½c. per lb.
Coriander seed, Argentine, 1½c. per lb.
Fennel seed, Indian, 1c. per lb.
Pepper, black, spot, 9c. per lb.
Poppy seed, Argentine, ¼c. per lb.
Dutch, 1c. per lb.
Thyme, French, 3½c. per lb.

**Prices Reduced**

*Drugs*

Boldo leaves, 1c. per lb.
Cantharides, Chinese, 10c. per lb.
Ginger root, Nigerian, split, 1c. per lb.
Uva ursi leaves, 2c. per lb.

*Other Articles*

Cassia, Saigon, broken, 1c. per lb.
thin, 3c. per lb.
Celery seed, Indian, ½c. per lb.
Cumin seed, 1c. per lb.
Dill seed, dewhiskered, ½c. per lb.
Mace, Siauw No. 1, spot, 8c. per lb.
afloat, 5c. per lb.
West Indian, spot, 5c. per lb.
Dec.-Jan. shipment, 10c. per lb.
Marjoram, Bohemian, 4c. per lb.
Nutmegs, East Indian, spot, 4c. per lb.
afloat, 1c. per lb.
Sage, Dalmatian, 3c. per lb.
Sesame seed, Chinese, white, natural, 1c. per lb.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Dec. 2, 1949 |
|---|---|---|---|---|
| 225.3 | 217.6 | 218.5 | 193.6 | 190.7 |

*(For Current Prices see Page 9)*

## Herbs and Leaves

**Boldo**—A gain in spot competition for the limited business now current brought the market down to 8c. to 10c. per pound.

**Boneset**—Country collectors propose to pay 2c. per pound less for new crop goods as quoted in the Winter buying list.

**Catnip**—The most recently issued buying price list, good to February 1 next, raises collectors payment by 2c. per pound.

**Lobelia**—A drop of 10c. per pound appears in a Winter buying price list just issued and effective to February 1, 1951. The 1950 crop was much larger than had been expected.

**Marjoram**—Chilean was offered in a limited way at a decline to the basis of 38c. to 38½c. per pound for spot goods.

**Mullein** — Domestic leaves are worth less in the estimation of collectors in a Winter buying list good to February 1. The reduction in prices they will pay was 2c. per pound.

**Sage**—Addition to spot stocks brought a drop in the price of Dalmatian material to $1.14 to $1.18 per pound.

**Senna**—Alexandrian senna was reported very scarce at the higher price of 18c. to 2c. per pound. TV senna held strong.

**Thyme**—A sensational rise in French cables brought out a to-arrive market at 19c. per pound and a spot at 19½c. to 20c.

**Uva Ursi**—Local quotations declined to 8c. to 10c. per pound under the influence of limited demand and more competition.

**Witch Hazel**—Though the 1951 season is months away, a Winter price list of values collectors are disposed to name until February 1 next, showed a 2c. rise from September buying prices.

## Miscellaneous

**Cantharides**—Prices on Chinese flies were reduced to 65c. to 70c. per pound for whole and 80c. to 85c. for powder. This weakness seemed to reflect conditions in this country and to have developed irrespective of the present adverse Korean picture which, in turn, casts all China business under a shadow.

**Ergot**—The market was purely nominal and at least $6.70 to $7 per pound would have to be paid now for spot goods—if any could be had in open market transactions. Orders for even as little as two to three hundred pounds were being pared down to around fifty pounds under voluntary ration programs of suppliers. Prices recently made in Portugal on shipment goods worked out between $9 and $10 per pound. Most dealers here are laying off of replacement offerings thereat.

**Irish Moss** — The virtual failure of French production continued to force higher replacement prices. Spot quotations on bleached moss were up to 26c. to 28c. per pound and powder was held at

*For Late Market Developments, See Page 4*

"Diethylstilbesterol Hopkins"

Available from stock in crystalline powder and in granulated forms for ready-to-make tablets.

Prices on request.

J.L. HOPKINS & CO.
477 Keap Street, Brooklyn, N. Y.
BOTANICAL DRUGS
EXTRACTS
MEDICINAL CHEMICALS

New Horizons

FOR KELCO ALGIN

FOOD PRODUCTS
ICE CREAM
COTTAGE CHEESE
CHEESE SPREADS
FLAVOR EMULSIONS
CANDY GELS
TOPPINGS
PIE FILLINGS
SHERBETS AND ICES
CREAM CHEESE
FRENCH DRESSING
MEAT SAUCES
BAKERY ICINGS
MERINGUES
BAKERY GLAZES
JELLIES AND SYRUPS

PHARMACEUTICALS and COSMETICS
EMULSIONS AND SUSPENSIONS
JELLIES AND OINTMENTS
SHAVING CREAMS
SHAMPOOS
DENTIFRICES
HAND LOTIONS AND CREAMS
DENTAL IMPRESSION COMPOUNDS

INDUSTRIAL
PAPER COATINGS
PAPER SIZING
ADHESIVES
FIRE RETARDING COMPOUNDS
CERAMIC GLAZES
DETERGENTS
LEATHER FINISHING COMPOUNDS
CLEANING COMPOUNDS
TEXTILE PRINTING PASTE
WATER-THINNED PAINTS
BOILER COMPOUNDS
LATEX CREAMING AND THICKENING

KELCO REFINED ALGIN PRODUCTS

KELCO COMPANY
CHICAGO 6 NEW YORK 5 LOS ANGELES 14
Cable Address: Kelcoalgin, New York

VANILLA BEANS

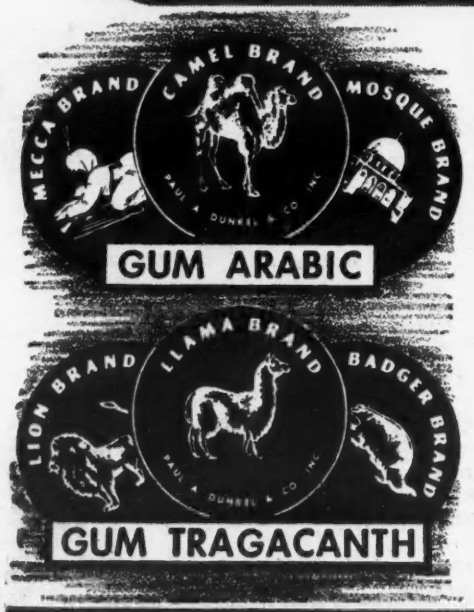
DIRECT IMPORTERS
ALL VARIETIES

ESTABLISHED 1856
THURSTON & BRAIDICH
286 Spring Street, New York 13, N. Y.

VANILLA BEANS
ZINK & TRIEST CO.
15 LOMBARD STREET PHILADELPHIA 47, PA.

M. Cortizas & Co.
IMPORTERS OF VANILLA BEANS
ALL VARIETIES
731-733 ARCH STREET
PHILADELPHIA 6, PA.
CABLE ADDRESS ——— VANCORT
CODES · BENTLEY'S SECOND PHRASE
——— AND PRIVATE ———

GUMS Chemicals and Drugs
(CRUDE, POWDERED)




GUMS:
GUM ARABIC (Bleached)
GUM GHATTI
GUM KARAYA (Indian)
GUM EGYPTIAN
GUM LOCUST (Carob Flour)
QUINCE SEED
★
CASEIN
★
*SPECIALTIES:*
MENTHOL (Crystals)
★
TEA SEED OIL
★
EGG ALBUMEN
EGG YOLK
BLOOD ALBUMEN
JAPAN WAX
CANDELILLA WAX

PAUL A. DUNKEL & CO., Inc.
IMPORTERS AND EXPORTERS
1 WALL STREET, NEW YORK 5, N.Y. Hanover 2-3750
CHICAGO: 919 N. MICHIGAN AVE., TEL. SUP. 7-2462
REPRESENTATIVES:
CHICAGO: CLARENCE MORGAN, INC. PHILADELPHIA: BAKER & GAFFNEY
BOSTON: P. A. HOUGHTON, INC. LOS ANGELES: JOHN A. HUGHES

33c. to 38c. as to quality. It still seemed odd to have offerings of Irish moss being made from Ireland.

## Roots

**Cohosh**—Confidence in the 1951 value of black cohosh showed in a Winter price list, good to February 1, which offers diggers 2c. per pound over the prices paid late in the 1950 collection season.

**Elecampane** — Foreign shippers upped their c & f shipment quotations by 1c. per pound. Spot goods were unaffected.

**Goldenseal**—Buying of 1951 crop root will open at least 50c. per pound above prices offered diggers late in 1950, according to a Winter price list good to February 1. The spot was dull and easy.

**Hellebore**—Prices on domestic root advanced so sharply at the origin in the 1950 season that collectors have set their preliminary buying price 5c. per pound under the late 1950 schedule. The lower price is set to February 1 next.

**Helonias** — Collection in 1951 may be encouraged by the pre-season listing of buying prices at levels 20c. per pound above those in September last. The Winter price is good to February 1.

**Mandrake**—A buying price good to February 1 next is 5c. over the levels offered in one quarter to diggers late in 1950. Holdover stocks in the country remain unsold as yet.

**Spikenard**—The root is listed 3c. per pound higher than what collectors offered diggers late in 1950. The new price holds until February 1 next.

**Stillingia**—Real effort to increase 1951 collection appears in a rise of 7c. per pound in buying prices just issued and good to February 1 next in the latest Winter buying price schedule.

**Valerian**—Belgium has uppped the shipment price of its offerings by 3c. per pound over prices prevailing early in November.

## Seeds

**Anise**—Spanish seed came into the market at 17c. per pound.

**Caraway**—Higher prices in Holland put spot quotations up to 19c. to 19½c. per pound.

**Cumin**—Iranian and Syrian seed were lower at 23c. to 23½c. per pound in a dull market.

**Fennel**—Indian seed on spot rose to 14c. to 15c. per pound in response to a primary market price development.

**Poppy** — Pool prices continued to advance, carrying spot quotes to 19c. to 19½c. per pound for Dutch seed. Argentine was up a fraction to 15¾c. to 16c. Turkish became nominal at 15c.

## Spices

**Cassia**—Because of strained political relations between Red China and the United States, Honan and Yunnan cassias rose sharply to these price levels:—Scraped rolls, 19c. to 19½c. per pound; broken, 17½c. to 18c.; unscraped, 17c. to 17½c. Select broken rolls rose ½c. and reached 12½c. per pound. Saigon was lower. Thin, afloat, 47c. to 48c.; broken, spot, 30c. to 31c., and afloat, 28c.

**Clove** — Trading between dealers led spot prices up ½c. and set the market at 26½c. to 27c. for whatever variety of spice.

**Ginger**—No. 3 Jamaica root for January-March shipment was raised to 46c. to 47c. per pound. Nigerian root on spot was down to 36c. to 37c. Other spot prices were not changed.

**Mace**—Prices declined. Siauw, No. 1, spot, $1.30 to $1.35 per pound and afloat, $1.30; West Indian, spot, $1.30 to $1.35 and December-January shipment, $1.25 to $1.30.

**Nutmeg**—East Indians were lower on spot at 66c. to 77c. per pound and spice afloat was quoted 64c. to 65c. West Indians held unchanged.

**Paprika**—Prices and distribution during the 1950-51 season have been decontrolled by a decree in the official gazette of the Spanish government. Local comment was that the market was in confusion but agents said: "We have been able to confirm a fair volume at levels only slightly higher than last year. A vacuum is building up and it is well to have partial coverage of future needs."

**Pepper**—Prices on spot black pepper reacted upward by 3c. per pond at times last week, becoming $1.51 per pound at midweek. The more distant position were not cabled. India showed no disposition to do volume business at current price levels.

Prices on Friday afternoon were as follows:—Spot, $1.57 to $1.58 per pound. December shipment, $1.47 to $1.48; January-March shipment, $1.35 to $1.36.

## Marshall Opens Office

Albert E. Marshall, former president of the Rumford Chemical Works and more recently vice-president in charge of the Rumford Division, Heyden Chemical Corporation, has opened an office in the Industrial Trust Building, Providence, R. I., and resumed practice as a consulting chemical engineer.

MUSTARD FLOUR
ALL GRADES
U S P
U S P BROWN
Special for Mayonnaise
Old Dutch Mustard Co., Inc.
Manufacturers
80 Metropolitan Ave., Brooklyn 11, N.Y.
Phone: EVergreen 7-9156

VAN GELDER-FANTO CORPORATION
52 Vanderbilt Avenue New York 17, N. Y.
Telephone: LExington 2-4901-4
Cable Address: Biologra, New York • Mafanto, New York
CONCENTRATED OX GALL & SHEEP GALL
CHOLESTEROL U.S.P. & TECHNICAL
GLANDULAR POWDERS
PROGESTERONE U.S.P.
BEEF EXTRACT

Rotenone
RESINS OR POWDER
ORBIS PRODUCTS CORPORATION
215 PEARL STREET, NEW YORK

# Essential Oils, Other Aromatics

After about a month during which the prices of essential oils and aromatic chemicals seemed to level off and, in some cases, become easier, the past week brought a revival of the upward trend of the summer months. Again, advances greatly overshadowed the few price reductions. Fifteen oils and four chemicals showed rises, some of them quite marked. These included the virtually nonexistent abies siberica and ylang-ylang oils as well as such tight items as caraway, cassia, eucalyptus, lemongrass and Florida orange oils. Based on the difficulty of obtaining raw materials, advances in such aromatics as phenyl ethyl alcohol, phenyl ethyl acetate, citral, and methyl anthranilate were made. Lavandin and lavender flower oils continued to grow more expensive. The declines in the prices of coriander and sandalwood oil were made by individual dealers and were based on local competition ratner than an improvement in supply o. primary prices. The price index moved upward by 1.2 points to 188.0.

The discouraging developments which occurred in the international situation last week did not immediately affect this market, but observers were inclined to assume that they may further disturb the already difficult supply situation of many of the items which originate in the Far East and in Soviet-dominated territories. Such materials as lemongrass, sandalwood and citronella oils, as well as the Chinese anise and cassia oils, have become quite expensive at the sources and presented some difficulties as to shipping. All were extremely strong on the spot market. Another item of ever increasing strength was eucalyptus oil. Shortage of material and advanced cost of production, according to shippers, has made this oil more expensive than it has been for the past two years.

Of the domestic oils, orange exhibited the greatest strength. Florida oil was growing very scarce and replacements could not be expected for at least another month. Also growing steadily firmer were cedarwood and cedarleaf oils, and the same was true of grapefruit oil.

## Market Trends

**Prices Advanced**

Abies siberica oil, 25c. per lb.
Bay oil, Puerto Rican, 50-55%, 10c. per lb.
55-60%, 30c. per lb.
Caraway oil, 5c. per lb.
Cassia oil, 25c. per lb.
Citral, 25c. per lb.
Citronella oil, Ceylon, 5c. per lb.
Eucalyptus oil, 70-80%, 5c. per lb.
80-90%, 5c. per lb.
Fennel oil, 70c. per lb.
Lavandin oil, 25c. per lb.
Lavender flower oil, 30-32%, 25c. per lb.
Lemongrass oil, 5c. per lb.
Lime oil, distilled, West Indian, 25c. per lb.
Methyl anthranilate, 25c. per lb.
Nutmeg oil, West Indian, 20c. per lb.
Orange oil, Florida, 10c. per lb.
Palmarosa oil, 25c. per lb.
Phenyl ethyl acetate, 10c. per lb.
Phenyl ethyl alcohol, 20c. per lb.
Ylang-ylang oil, Bourbon, $4 per lb.

**Prices Reduced**

Coriander oil, $2 per lb.
Sandalwood oil, 25c. per lb.

**Comparative Price Indexes**

(100—August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Dec. 2, 1949 |
|---|---|---|---|---|
| 188.0 | 186.8 | 189.8 | 102.8 | 100.0 |

*(For Current Prices see Page 9)*

## Essential Oils

**Abies Siberica**—With no new arrivals at this market for some time, the few dealers still carrying stocks offered this item at prices ranging from $4 to $4.50 per pound. The quantities available were extremely limited. One handler reported a shipment en route, but was unable to predict the price of the oil when it becomes ready for sale.

**Anise**—During the early part of last week, dealers reported this item to be in a rather good position. Supplies were said to be arriving in adequate quantities from the source and spot prices continued to range from $1.25 to $1.65 per pound. The discouraging news from the Far East midway through the week did not noticeably change the local situation but the future was uncertain.

**Bergamot**—While prices remained unchanged at $6.50 to $8 per pound, supplies were exceedingly tight with little chance for improvement for at least another month, at which time new crop material should begin to appear at the source.

**Caraway**—Not unexpected was the advance made in the spot price of this oil last week. It moved up at least 5c. per pound and was quoted at $4 to $5.10 a pound. Stocks were not too plentiful and prices quoted from Holland were higher.

**Cardamom**—Few dealers were in a position to quote on this tight article, since spot stocks have greatly dwindled. Some seeds were reported afloat by one dealer, who expected the distilled oil prepared from it to sell at $60 per pound.

**Cassia**—Continuing to present a problem as to supply, the spot material held by a few handlers was advanced by 25c. per pound to prices ranging from $4.75 to $5.50 a pound. In some quarters, it was reported that there were moderate amounts of material, but offers from Hong Kong for replacements were few. Latest developments in the political situation in the Far East being unfavorable, the future of materials such as this became more precarious.

**Citronella**—Despite the fact that supplies were said to be in a fairly good position, prices at the origin having advanced, Ceylon material was up 5c. per pound last week. Quotations ranged from $1.57 to $1.95 per pound, with the Estate quality oil priced at or over $1.60. Java-type oil remained quiet during the past week at the firm prices of $1.90 to $2.55 a pound. True Java oil stocks were held in minute quantities by only a few dealers at prices ranging from $2.40 to $2.65 a pound.

**Clove**—A good supply has made it possible for some dealers to maintain their prices at a steady level, ranging from $2 to $2.45 a pound. However, according to observers, the market was growing firmer and cables received from the source indicated further advances in the cost of spice.

**Coriander**—Based solely on market competition, last week brought a drop of $2 per pound in the minimum quotation of this oil. Material was far from plentiful and elsewhere in the market prices continued to range up to $28.50 a pound.

**Eucalyptus**—A further advance of 5c. per pound was made in the spot prices of both 70-80 and 80-90 percent material. The former was offered at 90c. to $1.05 a pound and the latter at $1 to $1.25. These prices were higher than any noted for the past two years. The most desirable oil coming from Australia was particularly tight and higher for shipment based on increased cost of production. Demand continued to be very active.

**Fennel**—This generally quiet item was markedly advanced in price last week. It was quoted from $3 to $3.25 a pound. Small but steady trading was reported.

**Geranium**—Both Algerian and Bourbon oil were offered in limited quantities at the recently reduced prices, the former material selling at $22 to $30 and the latter at $24.50 to $30 a pound. New crop material from Reunion Island was expected some time in January and, in the opinion of one observer, should bring further price reductions, although others expressed some doubts.

**Ginger**—Remaining stocks of old crop oil held firmly at the prices of $22 to $25.50 per pound. New crop material was not expected until next April. Until that time it may be assumed that prices will continue to be high, according to the trade.

**Grapefruit**—Reports of additional firmness have been received, but prices have not noticeably changed. The range of quotations stood at 90c. to $1.25 per pound. Being of less interest to consumers than the other citrous oils, the short supply was not alarming.

**Lavandin**—Moving ever higher, this oil was quoted some 25c. per pound higher last week. Prices ranged from $3.10 to $4.25 a pound. These advances were the result of steadily rising replacement costs.

**Lavender**—Like lavandin oil, these articles were also continuing their upward drive. The 30-32 percent ester grade advanced to prices more nearly in proportion to the higher prices of the better grades. It was priced from $4 to $4.50 a pound. The 38-40 percent ester material held firmly at the recently advanced level of $6 to $6.35 a pound, and the 40-42 percent item price range expanded upward, standing at $6.50 to $7.25 a pound. According to observers, the minimum spot prices were practically equal to the cost of replacement. Spanish spike oil prices remained steady at $1.60 to $2.10 per pound, but dealers expressed the opinion that it, too, might advance to more nearly equal the price of the lavandin oil which it can often replace.

**Lemon**—This market was without feature last week. All types continued to be

*For Late Market Developments, See Page 4*

MAGNUS MEANS RELIABILITY
M&R MAGNUS
When extreme concentration of flavor is desired—
TERPENELESS CITRUS OILS MM&R
Orange (35 fold) • Lemon (16 fold) • Lime (19 fold)
Highly concentrated, always uniform, MM&R's fine Terpeneless Citrus Oils compress a lot of flavor into very small bulk. In Orange Oil, for example, you get the equivalent of 35 pounds of flavor in one pound of bulk. The use of MM&R Terpeneless Oils greatly reduces spoilage, handling, shipping and storage charges, and also effects important economies in flavoring costs.
MAGNUS, MABEE & REYNARD, INC.
Write MM&R For further information
16 DESBROSSES STREET, NEW YORK 13, N. Y.
221 NORTH LA SALLE STREET, CHICAGO, ILL.
Los Angeles: Braun Corp. • Seattle, Portland, Spokane: Van Waters & Rogers, Inc.
San Francisco: Braun-Knecht-Heimann Co.
SINCE 1893...ONE OF THE WORLD'S GREATEST SUPPLIERS OF ESSENTIAL OILS

MYSORE GOVERNMENT SANDALWOOD OIL
Distilled at Linden, N. J., from selected Mysore Heartwood by Sole Distillers and Selling Agents
W. J. BUSH & CO.
INCORPORATED
11 East 38th Street, New York 16, N. Y.
ESSENTIAL OILS | NATURAL FLORAL PRODUCTS | AROMATIC CHEMICALS

Florasynth LABORATORIES, INC.
1533 OLMSTEAD AVE • N. Y. 61, N. Y.
SUPREME AROMATICS
ESSENTIALS • FLAVORING
PERFUME • OILS
Chicago 6, Los Angeles 13 and other principal cities in the U. S., Canada and Mexico

Spot
ESSENTIAL OILS
FLAVORING MATERIALS | PERFUME OILS ODOR MASKS | AROMATIC CHEMICALS
Domestic—Export May We Serve You?
D. W. HUTCHINSON & CO., INC.
162-164 FRONT STREET NEW YORK 7, N. Y.
FOUNDED 1896
Telephone: WHitehall 3-4774

ESSENTIAL OIL VALUES . . . .
Extrange
Some buyers of essential oils can be sold only on the basis of *price*. . . . Others reflect a sound company policy by insisting first upon *quality*. Our products are made-to-order for the latter because they are selected, tested and guaranteed to be the best obtainable quality. They reflect true FRITZSCHE VALUES . . . a PART of the product, APART from the price!
FRITZSCHE Brothers, Inc. Established 1871
ASK US FOR CURRENT QUOTATIONS
Phone, Write or Wire
PORT AUTHORITY BUILDING, 76 NINTH AVENUE, NEW YORK 11, N. Y.
BRANCH OFFICES and *STOCKS: Atlanta, Georgia, Boston, Massachusetts, *Chicago, Illinois, Cincinnati, Ohio, Cleveland, Ohio, *Los Angeles, California, Philadelphia, Pennsylvania, San Francisco, California, *St. Louis, Missouri, *Toronto, Canada and *Mexico, D. F. FACTORY: Clifton, N. J.

Freak, new products never pay—any day. Make new products unique—make them pay, every day—with A NORDA ORIGINAL.

Make more people want more of your products, when you offer Norda *sales scents.*

For *the smell that will sell,* and keep selling, use A NORDA ORIGINAL. You can't find another fragrance quite like it—blending yesterday's spicy-richness with an exciting new—*so* new—odor. With A NORDA ORIGINAL, you'll have appeal that can steal every sale.

Try A NORDA ORIGINAL. Rigidly test it. Send to Norda—*first ever to talk sales scents*—for working-size samples today.

NORDA MAKES GOOD SCENTS

*Norda* ESSENTIAL OIL AND CHEMICAL COMPANY, INC.
601 West 26th Street, New York 1, N. Y.

CHICAGO • LOS ANGELES • ST. PAUL • MONTREAL • TORONTO
HAVANA • MEXICO CITY • LONDON • PARIS


limited in supply at very firm prices. Californian oil ranged from $4 to $4.25 a pound, depending upon brand, and material of Italian origin continued to sell at the wide range of $3.15 to $8 per pound.

**Lime**—In some quarters, distilled West Indian material was reported to have moved up. This has resulted in a rise of 25c. per pound in the minimum price to $6.75. Elsewhere prices ranged to $7.25. Mexican oil was more stable, ranging from $5.75 to $7 per pound, the level established last month.

**Nutmeg**—Both East Indian and West Indian material grew stronger during the past week. Prices in some places advanced as much as 35c. a pound. The former item continued to be offered by one dealer at the minimum price of $3.85, but throughout the market, prices ranged as high as $4.35. West Indian oil prices moved up all through the market to range from $3.85 to $4 a pound.

**Orange**—All domestic material was extremely strong. Florida oil advanced by at least 10c. per pound and was offered at a minimum of $1.25 a pound. The majority of dealers, however, held the material at the top price of $1.50. Because of an overabundance of oil produced the previous year which greatly weakened the market, production this year has been comparatively small, and with new material not expected before January, the market has become more favorable to sellers. California oil was in a somewhat better position of supply, but prices have been growing firmer. One offer was made at $1.25 per pound, but the major portion were held much higher, at $1.60 to $2 per pound, according to producer.

**Palmarosa**—Price fluctuations which resulted in a decline the previous week, brought an advance in the minimum quotation last week. The oil was available in fairly good quantities at $7.75 to $8.25 a pound. Prices varied from time to time depending upon the supply position of individual dealers. Trading was not large but was steady and production at the origin was reported to be good.

**Peppermint**—According to the trade, prices in the country have continued to grow stronger. The spot market still did not reflect this firmness. Local handlers were able to hold their prices for the time being. Natural oil could be purchased at $6.50 to $7.25 a pound and the USP quality oil was priced at $7 to $7.65 a pound.

**Petitgrain**—Only small quantities of this oil were to be had on the spot market as it grew steadily stronger. There continued to be one offer at $3.05 per pound, while others became higher, ranging to $3.40 a pound.

**Sage**—Spanish oil was reported to be in a fairly good state of supply, and the price range remained steady at $1 to $2.10 a pound. Quite the opposite was true of the Dalmatian material. What little there remained of this item was held at the extremely high prices of $13 to $15.25 a pound. These prices were approximately three times as high as those prevailing just one year ago. It was hoped that the next few months might bring some alleviation to this unhappy situation, but there was no assurance that this would happen.

**Sandalwood**—One handler was able to offer this oil at the reduced price of $11.75 per pound. However, elsewhere in the market, prices continued to range from $12 to $12.50. There have been conflicting reports on the position of this material. In some quarters it was found to have eased a bit, but most dealers found logs slightly higher in price and reported delivery to be very difficult. In general, demand was said to be quite heavy and more oil could be sold than was available.

**Wintergreen**—The widely used synthetic material was up 5c. per pound in some quarters last week. It was offered at 45c. to 50c. per pound in large quantities and at 50c. to 55c. per pound in the smaller amounts. Natural oils were steady and unchanged in price.

**Ylang-Ylang**—These scarce oils were offered by only a few suppliers at advanced prices. Bourbon oil was priced from $16 to $18 per pound and extra grade oil at $18.50 to $25 a pound. There have been no new arrivals of these oils for some time and all offers were made from the greatly diminished spot stocks.

## Aromatic Chemicals

**Benzyl Acetate**—In large quantities, this material was offered at prices ranging from 65c. to 80c. per pound. In small containers, quotations were made as high as $1.05 a pound. This material was one of the many suffering from the shortage of benzol, necessary for its manufacture.

**Citral**—There was an advance of 25c. per pound in the minimum offer of this item. It was quoted at a range of $5.75 to $6.50 per pound. According to producers, supplies were adequate but increased costs of replacement of lemongrass oil has forced the advance. Cables received from the source, it was reported, quoted constantly rising prices.

**Methyl Anthranilate** — Last week brought a marked advance in the price of this item. It moved up 25c. per pound to sell at prices ranging from $2.50 to $2.55 per pound.

**Phenyl Ethyl Acetate**—An increase of 10c. per pound was noted in the minimum offer putting the range of prices at $1.40 to $1.80 per pound. As has been the case with most aromatic chemicals which have become more expensive, the reason given by producers was the scarcity and higher cost of basic items.

**Phenyl Ethyl Alcohol**—Based on the increased cost of materials, this chemical jumped quite a bit higher last week to prices of $1.60 to $1.95 per pound, depending upon quantity and container. The article was widely used and actively called for by perfumers and producers of toilet goods.

**Terpineol**—Although prices have not been advanced, producers reported the basic pine oil very hard to come by and high in price. This has resulted in a very tight situation where there was formerly quite a competitive market. Prices ranged from 39c. to 55c. a pound.

ROURE-DUPONT INC.

*General Office*

366 MADISON AVE., NEW YORK

Chicago Branch
510 North Dearborn St.

Los Angeles Branch
5517 Sunset Blvd., Hollywood

*Sole Agents in U.S.A. and Canada for*

**Roure Bertrand Fils and Justin Dupont**

Grasse (A.M.) France — Argenteuil (S.&O.) France

ESSENTIAL OILS
AROMATIC PRODUCTS

## Bids Wanted

**Acetone,** 50,528 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-52,751, December 8; 29,150 gallons, Navy Purchasing Office (New York 3) invitation 7653, December 20.

**Ammonium chloride,** 12,000 pounds, Navy Purchasing Office (New York 3) invitation 7665, December 12.

**Ammonium sulphate,** fertilizer, Army Engineers Corps (Fort Worth, Texas) invitation CIVENG-26, December 6.

**Carbon remover,** 3,440 gallons, Navy Purchasing Office (New York 3) invitation 7644, December 11.

**Chemicals,** silver nitrate crystals, 384 bottles, sodium acetate, 388 ¼-pound bottles, sodium iodide, 384 ½-pound bottles, sodium phosphate, dibasic, anhydrous, 288 ½-pound bottles, monobasic, 288 ½-pound bottles, sodium tungstate, 288 ¾-pound bottles, Veterans Administration (Washington 25) invitation A-33, December 11.

**Cinnamon,** ground, 6,500 pounds, Quartermaster Procurement Agency (New York 3) invitation 51-127, December 18.

**Detergent,** 15,000 pounds, Public Buildings Service (Washington 25) invitation 581, December 11; 10,700 gallons, Navy Purchasing Office (New York 3) invitation 7732, December 12; painted surface cleaner, 129,000 pounds, same, invitation 7649, December 21; dishwashing, 1,150,000 pounds, same, invitation 7726, December 20; mechanical dishwashing, 15,000 pounds, Federal Supply Service (Washington 25) invitation 3M-95188-R, December 12.

**Disinfectant,** 6,500 gallons, Navy Purchasing Office (New York 3) invitation 7750, December 26.

**Drugs,** in dosage form, ephedrine sulphate, codeine phosphate, indigo carmine, saccharin sodium, sodium salicylate, procaine hydrochloride, Veterans Administration (Washington 25) invitation A-34, December 12; digitalis, diphenylthiocarbazone, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 659, December 8; insulin, protamine zinc insulin, same, invitation 674, December 7.

**Ethyl alcohol,** denatured, 40,000 gallons, Navy Purchasing Office (New York 3) invitation 7718, December 21.

**Fats & oils, edible:** oleomargarine, 3,000 pounds, and salad oil, 40 gallons, Medical Center for Federal Prisoners (Springfield, Mo.) invitation 17-2324, December 12; shortening, 6,000 pounds, and oleomargarine, 600 pounds, Federal Correctional Institution (La Tuna, Texas) invitation 13-4194, December 6; margarine, as required, U. S. Penitentiary (Lewisburg, Pa.) invitation 14-3133, December 12; margarine & shortening, as required, Federal Detention Headquarters (New York 14) invitation 7-1216, December 12; margarine, 3,330 pounds, and salad oil, 160 gallons, Federal Reformatory (Chillicothe, Ohio) invitation 5-3520, December 13.

**Fire extinguisher charges,** 10,000, in powder form, Navy Purchasing Office (New York 3) invitation 7672, December 8; 31,000, for mechanical foam extinguisher, invitation 7729, December 26; liquid, 6,000 quarts, invitation 7733, December 21.

**Gases,** industrial, medicinal, refrigeration, and fumigating materials, as required, March 15, 1951, through March 14, 1952, class 51, part III, December 14.

**Hydrochloric acid,** 94,000 pounds, Navy Purchasing Office (New York 3) invitation 7745, December 12.

**Insecticide,** 4,465 gallons, New York State Division of Standards & Purchase, Albany 1, invitation 2699, December 7; DDT powder, 2,950 pounds, Federal Supply Service (Washington 25) invitation 95459/3, December 21.

**Lead acetate,** 12,000 pounds, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-52,696, December 11.

**Lime,** hydrated, 200 tons, U. S. Air Force (March Base, Calif.) invitation 12, December 12.

**Limestone,** agricultural, ground, Commissioner of Purchases & Supplies, City Hall, Cleveland, Ohio, ordinance No. 250-50, December 8.

**Nitric acid,** 47,000 pounds, Navy Purchasing Office (New York 3) invitation 7746, December 12, 7 barrels, Army Signal Corps (Philadelphia 45, attention: Bidders List Section) invitation 732, December 27.

**Paint & allied products,** lacquer, black spraying, 1,596 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-52, 678, December 8; enamel, 425 gallons, same, invitation B-52,680, December 8; primer, zinc dust, 4,600 gallons, same, invitation B-52,708, December 12; enamel, interior, 1,800 gallons, same, invitation B-52,736, December 14; neoprene paint, aluminized, 400 gallons, same, invitation B-11,656, December 8; paint, 27,700 gallons, same, invitation B-52,720, December 12; varnish, insulating, 705 gallons, same, invitation B-52,717, December 14; enamel, aircraft, 6,671 gallons, same, invitation B-52,764, December 19; lacquer, cellulose acetate, 1,250 quarts, same, invitation B-52,824, December 26; enamel, glyceryl phthalate, 6,666 gallons, same, invitation B-52,777, December 21; lacquer, clear, 2,120 gallons, same, invitation B-52,763, December 19; lacquer, black, 555 gallons, same, invitation B-52,721, December 26; paint, 570 gallons, U. S. Air Force (Turner Base, Albany, Ga.) invitation 31, December 12; enamel, 3,000 gallons, Army Ordnance Department (Piccatinny Arsenal, Dover, N. J.) invitation 275, December 14; enamel, 2,430 gallons, lacquer, approx. 549 gallons, and paint, 5,300 gallons, Panama Canal (General Purchasing Officer, Washington 25) schedule 9830, December 8; enamel, 2,300 gallons, and paint, 4,500 gallons, Quartermaster Office, Fort Bragg, N. C., invitation ENG-54, December 11; paint, 2,915 gallons, and shellac varnish, approx. 311 gallons, Federal Supply Service (New York 13) invitation NY-W-25213, December 8; paint, varnish, etc., 3,424 gallons, same, invitations 3007, 3014, 3015, 3016, 3018, 3020, 3021, 3022, 3023, 3029, December 8.

**Phosphoric acid,** 10,000 pounds, Navy Purchasing Office (New York 3) invitation 7734, December 12.

**Pigments,** titanium calcium, dry, 504,000 pounds, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-52,805, December 11; in oil, white lead, 32,000 pounds; sienna, burnt, 400 pounds; raw, 1,300 pounds; burnt umber, 1,300 pounds; lampblack, 120 pounds; chrome yellow 1,000 pounds; dry, litharge, 200 pounds; red lead, 6,000 pounds; sienna, burnt, 500 pounds; raw, 150 pounds; yellow ochre, 100 pounds; gold powder, 24 pounds; aluminum powder, 1,100 pounds; gold leaf, 264 books; Panama Canal (General Purchasing Officer, Washington 25) schedule 9830, December 8.

**Resin coating,** permanent, 1,290 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-52,837, December 26.

**Salt,** rock, type I, 60,000 pounds, Federal Supply Service, Denver, Colorado, invitation 1837, December 6; 40,000 pounds, U. S. Air Force (Eglin Base, Fla.) invitation 62, December 18; regeneration of water softener, 480 tons, as required, same, (Chanute Base, Ill.) invitation 38, December 15.

**Soda ash,** 120 tons, U. S. Air Force (March Base) Calif) invitation 12, December 12.

**Sodium bicarbonate,** 10,200 pounds, Veterans Administration (Washington 25) invitation A-33, December 11.

**Sodium hypochlorite** solution, 7,000 gallons, Navy Purchasing Office (New York 3) invitation 7740, December 5.

**Sodium orthosilicate,** 14,200 pounds, Army Ordnance Department (Frankford Arsenal, Philadelphia) invitation 374, December 18.

**Solvent** emulsion, grease cleaning, 15,390 gallons, Navy Purchasing Office (New York 3) invitation 7669, December 21.

**Starch,** corn, 40,000 pounds, Navy Purchasing Office (New York 3) invitation 7737, December 21; laundry, 12,500 pounds, Federal Supply Service (Washington 25) invitation 3M-94912-R, December 12.

**Streptomycin,** dry powder, 60,000 one-gram bottles, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 673, December 7.

**Trichloroethylene,** 1,980 gallons, Army Ordnance Department (Frankford Arsenal, Philadelphia) invitation 374, December 18.


ZIMCO®
LIGNIN Vanillin C.P. U.S.P.

A Natural Source Vanillin

Vegetable origin. Produced by our patented process from coniferous woods.

**PURITY—U.S.P.** Pure crystals having only the true vanilla-like flavor.

**SOLUBILITY**—Dissolves more quickly due to its uniform crystalline structure.

**EXQUISITE AROMA** and **DELECTABLE TASTE** of Zimco pure Lignin Vanillin are imparted to your product.

**UNIFORM FLAVOR**—Never varies. Enables you to use Zimco Lignin Vanillin as a standard in determining your formulas.

Have you tried our PARAKEET Certified Food Colors?

Warehouse stocks, NEW YORK, CHICAGO, LOS ANGELES
Shipments made DIRECT FROM FACTORY ROTHSCHILD WISCONSIN
Additional stocks carried at ATLANTA, DALLAS, PORTLAND (Ore.), RENSSELAER (N. Y.) ST. LOUIS, SAN FRANCISCO for emergency deliveries

Sterwin Chemicals INC.
SUBSIDIARY OF STERLING DRUG CO.
1450 Broadway, NEW YORK 18, N. Y.
445 Lake Shore Drive, CHICAGO 11
Branch Offices ATLANTA, BOSTON, BUFFALO, CHICAGO, DALLAS, KANSAS CITY (MO.) LOS ANGELES, MINNEAPOLIS, PORTLAND (ORE.), ST. LOUIS

WORLD'S LARGEST SUPPLIERS OF VANILLIN



PERFUME MATERIALS · FLAVORS

FIRMENICH & CIE
SUCCESSEURS DE
CHUIT, NAEF & CIE
GENÈVE SUISSE

FIRMENICH & CO.
250 WEST 18th STREET, NEW YORK 11, N. Y.
CHICAGO OFFICE: 612 NORTH MICHIGAN AVENUE
IN CANADA: CARAMEED, LTD., 350 WALLACE AVENUE, TORONTO



Essential Oils
Terpeneless Oils
Natural Flower Products
Perfume Compounds
Aromatic Chemicals
Flavoring Materials

UNGERER & COMPANY
161 SIXTH AVENUE · NEW YORK 13 Plant and Laboratories, TOTOWA, N. J.
CHICAGO · BOSTON · PHILADELPHIA · ST. LOUIS · LOS ANGELES · ASHEVILLE



*for*
**perfume raw materials, aromatic chemicals, specialties and compositions**

*of high purity, odor perfection and consistent standards...*

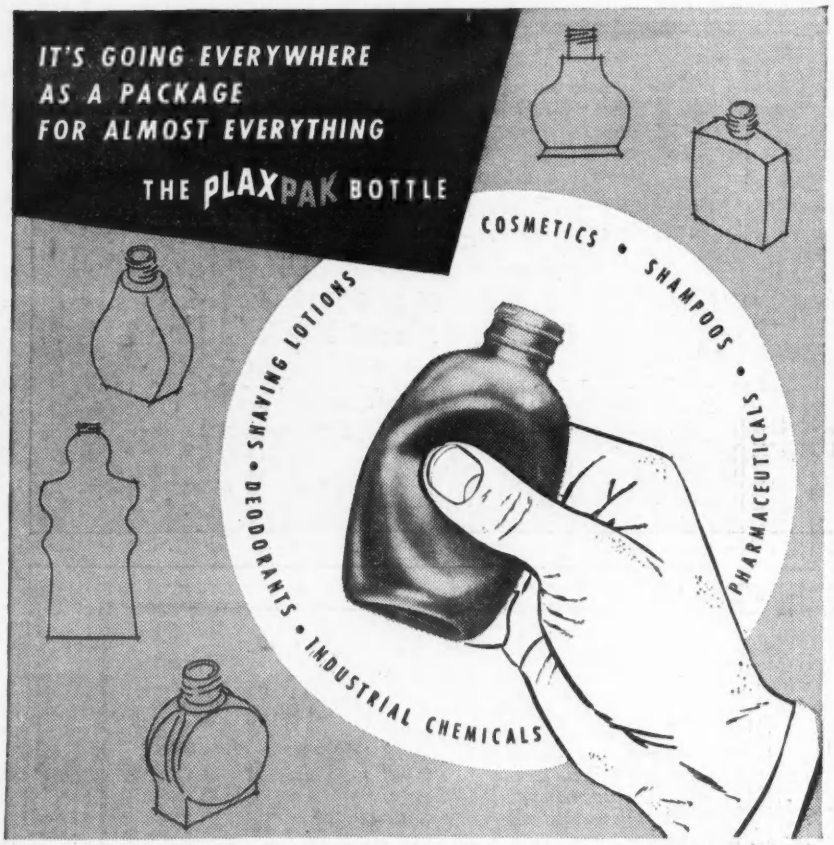
GIVAUDAN-DELAWANNA, INC.
330 West 42nd Street, New York 18, N. Y.

**ESSENTIAL OILS**
**and AROMATIC CHEMICALS**
**with the stamp of approval**

When you buy D&O Essential Oils and Aromatic Chemicals you also get with them the 151 years of experience, integrity and progress that D&O alone can give you.

D&O ESTABLISHED 1798
**DODGE & OLCOTT, INC.**
180 Varick Street • New York 14, N. Y.
ATLANTA • BOSTON • CHICAGO • CINCINNATI • DALLAS • LOS ANGELES • PHILADELPHIA • ST. LOUIS • SAN FRANCISCO
ESSENTIAL OILS • AROMATIC CHEMICALS • PERFUME BASES • VANILLA • FLAVOR BASES

schimmel
successful synthetic aromatic specialties
schimmel & co., inc.
601 West 26th St., New York 1 N. Y.


IT'S GOING EVERYWHERE
AS A PACKAGE
FOR ALMOST EVERYTHING
THE PLAXPAK BOTTLE
COSMETICS • SHAMPOOS • PHARMACEUTICALS
INDUSTRIAL CHEMICALS • DEODORANTS • SHAVING LOTIONS

Plax blow-molded products are made under the following U.S. Pats.: 2128239, 2175053, 2175054, 2230188, 2230190, 2260750, 2283751, 2349176, 2349177, 2349178.

Other Plax packaging materials which are gaining ever-widening application are Plaxpak polyethylene film and Polyflex*, a brilliantly clear transparent sheet that is high in strength, low in cost. Plax is also a leading source for extruded thermoplastics rod, tubing and sheet. Please write for our catalog. *Trade Mark Registered U.S. Patent Office.

**PLAX CORPORATION** P. O. BOX 1019 • HARTFORD 1, CONNECTICUT
In Canada, Plax Canada, Ltd., Toronto

SALES OFFICES in New York City, Syracuse, Philadelphia, Chicago, St. Louis, Cincinnati and Houston

PLAX FOR PLASTICS
NOT SUBSTITUTES IMPROVEMENTS

## *Imports at U.S. Ports*

*—Continued from page 63*

CADMIUM—20 cs, Bunge Corp, Kobe
CAFFEINE ANHYDROUS—299 bbls, Lo Curto & Funk, Santos
CASSIA—100 bls, W G Scarlett, Hong Kong
CHROME ORE—672 tons, Manufacturers Trust Co, Calcutta
900 tons, Assoc Metal & Minerals Co, Calcutta
CHROMITE ORE—7,146 tons, L J Buck, Lourenco Marques
CITRONELLA OIL—23 dms, Internatio Rotterdam, Tandjong Priok
HOOF & HORN MEAL—1,640 bgs, Bunge Corp, Buenos Aires
IRON OXIDE—1,177 bgs, Malaga
MAGNESIUM SILICOFLUORIDE—133 bbls, Davison Chemical Corp, Rotterdam
MANGANESE ORE—1,240 tons, Ore Trading Corp, Calcutta
1,016 tons, Chase National Bank, Luanda
POPPYSEED—200 bgs, W G Scarlett, Antwerp
POTASSIUM CARBONATE—298 bbls, Chase National Bank, Antwerp
QUEBRACHO EXTRACT—300 bgs, American Cyanamid Co, Manchester
5,361 bgs, Tanimex Corp, Buenos Aires
10,700 bgs, Buenos Aires
SEEDLAC—338 bgs, East Asiatic Co, Bangkok
150 bgs, Mac Lac Co, Bangkok
TALC—1,250 bgs, Whittaker Clark & Daniels, Marseilles
2,614 bgs, Whittaker Clark & Daniels, Bordeaux
1,000 bgs, L A Salomon & Bros, Bordeaux
1,000 bgs, Hammill & Gillespie, Bordeaux
TAPIOCA FLOUR—250 bgs, Stein Hall, Tandjong Priok
WATTLE BARK—1,104 bls, Wolmet Raw Products, Mombasa
1,642 bls, M S Kettenhorn, Mombasa
2,204 bls, River Plate Import & Export Corp, Mombasa
EXTRACT—1,577 bgs, American Cyanamid Co, Durban
1,471 bgs, River Plate Import & Export Co, Durban
1,422 bgs, Olson Sales Agency, Durban

### *Boston*

ASBESTOS FIBER — 4,000 bgs, Johns Manville, Lourenco Marques
BONE—2,264 bgs, International Packers Commercial, Buenos Aires
CRUSHED—1,049 bgs, Tupman Thurlow, Buenos Aires
CASEIN—900 bgs, Tupman Thurlow, Buenos Aires
CRESYLIC ACID—33 dms, Rotterdam
50 dms, George F Smith, Liverpool
GELATIN—302 bgs, Pellew Wilson, Durban
100 bgs, Nicholas & Co, Liverpool
324 bgs, Coignet Chemical Co, Antwerp
151 bgs, Coignet Chem Co, Rotterdam
GLUE—300 bgs, D C Andrews, Liverpool
1,248 bgs, Consolidated Chem Industries, Buenos Aires
1,300 bgs, Antwerp
300 bgs, Nicholson & Co, Antwerp
IRISHMOSS—66 bls, Algin Corp, Dublin
121 bls, Emerco Trading Corp, Havre
50 bls, Prentiss Drug & Chem Co, Havre
NAPHTHALENE—1,000 bgs, Monsanto Chem Co, Antwerp
1,100 bgs, Antwerp
OLIVE OIL—8 dms, Manufacturers Trust Co, Seville
109 dms, First National of Boston, Seville
OSSEINE—600 bgs, Eastman Gelatin Corp, Antwerp
643 bgs, Atlantic Gelatin Co, Antwerp
QUEBRACHO EXTRACT — 8,966 bgs, Tanimex Corp, Buenos Aires
1,500 bgs, River Plate Import & Export Co, Buenos Aires
292 bgs, First National Bank of Boston, Buenos Aires
SODIUM CYANIDE—40 dms, Bersworth Chemical Co, Antwerp
TAPIOCA FLOUR—1,900 bgs, 1st National Bank of Boston, Imbituba
334 bgs, First National Bank of Boston, Parnaiba
580 bgs, First National Bank of Boston, Itajai
802 bgs, Geismar & Co, Santos
WATTLE BARK—1,162 bgs, American Cyanamid Co, Durban
367 bgs, River Plate Import & Export, Durban
ZINC CHLORIDE—34 dms, M H Carney, Antwerp
80 dms, Beacon Industries, Antwerp

### *Camden*

BONE, CRUSHED—5,286 bgs, Elbert & Co, Buenos Aires

### *Charleston*

WATTLE EXTRACT—508 bgs, Olson Sales Agency, Durban

### *Los Angeles*

MARJORAM LEAVES—17 bls, Joensson & Cross, Marseilles
VANILLA BEANS—56 cs, Maurice Carasso, Marseilles

### *Newport News*

KYANITE ORE—500 tons, Charles Taylor Sons, Calcutta

### *Norfolk*

BONE MEAL—1,103 bgs, National City Bank, Havre
COTTON LINTERS—705 bls, Hercules Powder Co, Santos
FERTILIZER—2,240 bgs, Monsanto Chemical Co, Manchester
3,262 bgs, American Union Transport, Hamburg
MICA—25 cs, Asheville Schoonmaker Mica Co, Madras
QUEBRACHO EXTRACT—1,051 bgs, Olson Sales Agency, Buenos Aires
SODA ASH—300 bgs, I M Sobin, Antwerp
SODIUM BICARBONATE—6,969 bgs, Chemical Manufacturing Co, Liverpool
WATTLE BARK—1,106 bls, Wolmet Raw Products, Mombasa
1,108 bls, American Cyanamid Co, Durban
1,103 bls, Hammond & Carpenter, Durban

### *Philadelphia*

ALUMINUM SCRAP — 15,753 ingots, Frema Inc, Rouen
1,500 pcs, American Union Transport, Kobe
ANTIMONY OXIDE—1,000 bgs, Harshaw Chemical Co, Glasgow
BARYTE—6 bkts, C H Wheeler Co, Algiers
BONE CRUSHED—400 tons, Baugh & Sons, Buenos Aires
MEAL—4,102 bgs, Woodward & Dickerson, Antwerp
2,214 bgs, Woodward & Dickerson, Havre
CHEMICALS — 125 dms, Bergstrom Trading Co, Gothenburg
CRESYLIC ACID—145 dms, Charles Page, Rotterdam
59 dms, Tar Residuals, Manchester
149 dms, Charles Page, Liverpool
122 dms, Glasgow

AROMATICS • ESSENTIAL OILS • PERFUMERS' • MATERIALS •
SYNTOMATIC
CORPORATION
NEW YORK

**AROMATICS**
**ESSENTIAL OILS**
**PERFUME OILS**
**FLAVORS**

Confidence is based on a knowledge of an ability to perform. Let us show you why so many progressive manufacturers in the perfume and cosmetic industry say, "Be Sure with Syntomatic".

**SYNTOMATIC CORPORATION**
114 E. 32nd St., New York 16 • MUrray Hill 3-7618

# Consulting Chemists and Engineers

## ASSOCIATION OF CONSULTING CHEMISTS AND CHEMICAL ENGINEERS, INC.

50 East 41st Street, Room 82 — New York 17, N. Y. — LExington 2-1130

*A Clearing House* — Reg. U. S. — *for Consultants* — Pat. Off.

**When in need of a consultant address the Association**
**No charge for this service**

The Membership Located from Coast to Coast
Comprises Specialists in All Fields.

### R. S. ARIES & ASSOCIATES

*Chemical Engineers & Economists*
**Commercial Chemical Development**
Process Analysis • Market Research
Technical & Economic Surveys
Evaluations
Application Research
New Product Development
**Write for Leaflet A**
400 Madison Ave., New York 17, N. Y.
ELdorado 5-1430

### BJORKSTEN RESEARCH LABORATORIES

Sponsored Industrial Research

MADISON, WIS. 323 W. Gorham St.
CHICAGO, ILL. 13791 S. Avenue "O"
NEW YORK, N. Y. 50 E. 41st Street

**RESEARCH AND PRODUCT DEVELOPMENT**
**Oils, coatings, detergents, plastics. Organic and drug analyses. Testing work.**

### COLBURN LABORATORIES, INC.

**Research Chemists**
732 S. Federal St. — Chicago 5, Ill.

### SPECTROGRAPHIC ANALYSES

**Qualitative and Quantitative Since 1936**

Micro and Semimicro analyses of metallics; conventional and metallurgical analyses, metallography, metal failures investigated, heat treating consultants, photomicrographs, Jominy Hardenability, physical tests.

### W. B. COLEMAN & CO.

9th St. & Rising Sun Ave. Philadelphia 40, Pa.

### DI CYAN & BROWN

**Consulting Chemists**
12 East 41st Street, New York 17, N. Y.
MUrray Hill 5-0011

**CONSULTANTS in DRUGS and COSMETICS**

New Drugs; Product and Patent Development in Pharmaceuticals & Cosmetics; Label Preparation for Conformance to F.D.A. requirements, etc.

### ESSELEN RESEARCH DIVISION UNITED STATES TESTING COMPANY, INC.

### CHEMICAL RESEARCH AND DEVELOPMENT

857 Boylston Street, Boston 16, Mass.

### EVANS RESEARCH & DEVELOPMENT CORPORATION

Chemical Research—Processes—Products — Pilot Plant — Optical and Mechanical Section

**SEND FOR BOOKLET "O"**

INSPECT OUR UNUSUAL FACILITIES

MU. 3-0071
250 East 43rd St. — New York 17, N. Y.

**The BIGGEST MARKET for CONSULTATION SERVICES is among the readers of**
OIL, PAINT AND DRUG REPORTER
**Tell them about yours**

### EXPERIMENT INCORPORATED

**Chemical Consulting**
**Research and Development**
**Model Shop Facilities**

Write for Brochure

*An Organization to Serve You*

P. O. Box 1-TC — Richmond 2, Va.

### FOOD RESEARCH LABORATORIES, INC.

**FOUNDED 1922**
Philip B. Hawk, Ph.D., Pres.
Bernard L. Oser, Ph.D., Dir.
**RESEARCH—ANALYSES —CONSULTATION**
**Biological, Nutritional Toxicological Studies for the Food, Drug and Allied Industries**
48-14 33rd St., Long Island City, N. Y.

### FREED RESEARCH LABORATORIES

**CHEMICAL CONSULTANTS**
**TESTING**
**RESEARCH AND DEVELOPMENT**
New Product and Pilot Plant Projects
Chemical Patent Problems
**Meyer L. Freed, F.A.I.C.**
169 Main Street — Seymour, Conn.

### H. J. HALLOWELL

**323 Main Street, Danbury, Conn.**

*General analysis. Consultation*

Specialty: Alkaloidal assays. The chemical analyses of rare and common minerals, carbonate, phosphate and silicate rocks.

### D. H. KILLEFFER

**148 Westchester Avenue**
**Tuckahoe 7, N. Y.**
Phone: Spencer 9-6821

Public Relations for Chemical Enterprises

### LAWALL & HARRISSON

**CHEMICAL • BACTERIOLOGICAL PHARMACOLOGICAL**
*Analyses • Consultation Research*
**FOOD AND PHARMACEUTICAL PROCESS ENGINEERING**
Div. B, 1921 Walnut Street
Philadelphia 3, Pa.

### LEBERCO LABORATORIES

**Hormone Assays — Biological Assays**
**Pharmaceutical and Cosmetic Research**
**Sterility Tests • Toxicity Studies**
*Send for information concerning our services*
125 Hawthorne St., Roselle Park, N. J.

**The BIGGEST MARKET for CONSULTATION SERVICES is among the readers of**
OIL, PAINT AND DRUG REPORTER
**Tell them about yours**

### MOLNAR LABORATORIES

**Consulting, Testing and Research**

**Specializing in**
**Organic Synthesis**
**Hormone Assays**
**Clinical Studies**
**Product Development and Control**
**Toxicity and Dermatitis Tests**
**Disinfectant Testing and Formulation**

Member A. C. C. & C. E.
211 E. 19th St., New York 3, N. Y.
GRamercy 5-1030
Cable Address: Molchem

**The BIGGEST MARKET for CONSULTATION SERVICES is among the readers of**
OIL, PAINT AND DRUG REPORTER
**Tell them about yours**

### THE ORTHMANN LABORATORIES, INC.

**Consulting Analytical & Research Chemists**
**For the Leather & Allied Trades**
**Aug. C. Orthmann, President**
**922 NORTH FOURTH STREET**
**Milwaukee 3, Wisconsin**

### CHEMICAL CONSULTATION RESEARCH • DEVELOPMENT

### THE PANRAY CORP.

*Research Division*
340 Canal Street, New York 13

- Product & Process Development
- Sponsored Industrial Research
- Custom Organic Syntheses
- Chlorination Processes
- Chemical Therapeutics
- Microanalyses

**Phone: WAlker 5-7990**

**The BIGGEST MARKET for CONSULTATION SERVICES is among the readers of**
OIL, PAINT AND DRUG REPORTER
**Tell them about yours**

### W. S. PURDY CO., INC.

**Analytical & Consulting Chemists**
**TESTING OF PETROLEUM OILS WAXES AND RELATED PRODUCTS**
18 Bridge Street
Brooklyn 1, N. Y.
Phone ULster 5-6565

### THE SCHEPP LABORATORIES

**CONSULTING & RESEARCH**
**Industrial—Agricultural—Biochemical**
Wm. J. Schepp, F.A.I.C., Director
Member—A. C. C. & C. E.
21-23 Summit Ave. — Fairlawn 6-1212
East Paterson, N. J.

### Schwarz

**ANALYTICAL, CONSULTING and RESEARCH CHEMISTS**

Specializing in chemical, biochemical bacteriological and nutritional analyses of raw materials and finished products of food and beverage plants. Process surveys and control, legal testing and consultation. Founded 1869.

### SCHWARZ LABORATORIES, INC.

202 East 44th St. — New York 17, N. Y.

### SEIL, PUTT & RUSBY, INC.

**Established 1921**
**Earl B. Putt, President**
**Alfred S. Moses, Vice-President**
**Stephen S. Voris, Ph.D., Chief Chemist**

Experts in analyses of drugs, essential oils, spices, rotenone and pyrethrum and other organic insecticides, flavors, alcoholic liquors, toilet preparations, proprietaries and special formulae.

16 E. 34th St., New York 16, N. Y.
Phone: MUrray Hill 3-6368

### LOUIS L. SHAPIRO

**CHEMICAL CONSULTANT**
72 Orange Street, Brooklyn 2, N. Y.
TRiangle 5-7715

SPECIALIST—Glycol Esters, Fats, Oils, Stearic Acid, Fatty Acids, Glycerine, Waxes, Emulsifiers, Protein, Fertilizers, Tallow Rendering, Packing House By-Products, Soaps, Cosmetics, Distillation, Dowtherm, Process Engineering, Testing, Research.

### CHEMICAL AND ENGINEERING CONSULTANTS

Sense in Research Pays Dollars in Dividends. That is our province for your profit.

We are qualified to serve as Your Research Laboratory. Inquiry entails no obligation.

### FOSTER D. SNELL, INC.

*Research Laboratories*
29 West 15th St., New York 11, N. Y.

**WAtkins 4-8800**

### R. STECKLER LABORATORIES

8200 Harvard Ave. — Cleveland 5, Ohio
**CONSULTATION AND RESEARCH**
**MARKET AND APPLICATION RESEARCH**
**PRODUCT DEVELOPMENT**
**EVALUATIONS**

Specializing in coatings, synthetic resins, oils, varnishes, polymerization, high polymers, plastics, adhesives and mastics.

### STILLWELL & GLADDING, INC.

**130 Cedar Street, New York 6, N. Y.**

**Analysis — Inspection — Sampling**

Chemicals, drugs, fats, fertilizer, insecticides, oils, soap, solvents, etc.

*For Over 80 Years*

### UNITED STATES TESTING COMPANY, INC.

**1415 Park Avenue**
**Hoboken, New Jersey**

Physical and Chemical Facilities for Research, Development and Testing

**Paints, Varnishes, Lacquers and other Protective Coatings**

**Accelerated Weathering and Salt Spray Tests**

**Established 1880**

### TRUMAN B. WAYNE & ASSOCIATES

**Chemical and Engineering Consultants**

Process Development & Design
Commercial Chemical Development
Engineering & Economic Surveys
Design of Complete Processing Plants

**"28 years in the Chemical Southwest"**
**Illustrated Brochure Available**

1011 Waugh Drive — Houston 6, Texas

### WILEY & CO., INC.

**Analytical and Consulting Chemists**

Specializing in Analysis of Beverages Fertilizers, Phosphates, Wood Pulp, Coal and Coke, Feeding Materials, etc.

**Calvert and Read Sts., Baltimore, Md.**

---

FLUORSPAR—5,415,025 kilos, Wood Niebuhr & Co, Rotterdam
GAS OIL—62,052 bbls, Sinclair Mfg Co, Puerto La Cruz
GLYCERIN—37 dms, Antwerp
GYPSUM, CRUDE—6,091 tons, U S Gypsum Co, Hantsport
LEAD, ANTIMONIAL—3,547 ingots, Alltransport Inc, Rotterdam
LIVERMEAL—1,095 bgs, Wessel Duval, Buenos Aires
LOGWOOD—255,850 kilos, American Dyewood Co, Manila
NAPHTHALENE—2,000 bgs, American Tabu Co, Rotterdam
OLIVE OIL—7 dms, Philadelphia National Bank, Tarragona
PEATMOSS—470 bls, Halfmoon Manufacturing Co, Rotterdam
400 bls, Brussels Corp, Bremen
300 bls, Hamburg
PETROLEUM CRUDE—244,409 bbls, Atlantic Refining Co, Pamatacual
253,592 bbls, Atlantic Refining Co, Puerto La Cruz
200,667 bbls, Atlantic Refining Co, Ras Tanura
100,841 bbls, Atlantic Refining Co, Las Piedras
614,954 bbls, Gulf Oil Corp, Mena Al Ahmadi
620,313 bbls, Gulf Oil Corp, Puerto La Cruz
122,429 bbls, Sun Oil Co, Puerto La Cruz
104,269 bbls, Sun Oil Co, Curacao
123,227 bbls, Socony Vacuum Oil, Puerto La Cruz
299,903 bbls, Socony Vacuum Oil, Mena Al Ahmadi
228,180 bbls, California Refining Co, Ras Tanura
114,334 bbls, Texas Oil Co, Pamatacual
212,930 bbls, Texas Oil Co, Ras Tanura
344,143 bbls, Texas Oil Co, Las Piedras
242,362 bbls, Sinclair Refining Co, Tuxpam
173,268 bbls, Sinclair Refining Co, Amuay Bay
391,286 bbls, Sinclair Refining Co, Puerto La Cruz
STEARYL ALCOHOL—340 cs, Rohm & Haas Co, Liverpool
TALC—1,000 bgs, Moore & Munger, Bordeaux
WATTLE EXTRACT—611 bgs, Olson Sales Agency, Durban
WHITING—5,600 bgs, N H Weitzner, Antwerp

### *San Francisco*

ALUMINUM INGOTS—18 tons, Miles Metal Corp, Kobe
55 tons, Universal Transcontinental Corp, Kobe
AMMONIUM MURIATE—300 bgs, Chemical Manufacturing Co, Manchester
AMMONIUM PHOSPHATE—1,000 bgs, Wilbur Ellis Co, Rotterdam
BALL CLAY—32 tons, Paper Maker Importing Co, Rotterdam
BLEACHING POWDER—100 dms, Chemical Manufacturing Co, Manchester
CALCIUM CHLORIDE—454 dms, Light Work Products, Antwerp
200 bgs, Innis Speiden, Rotterdam
CARAWAYSEED—350 bgs, Langendorf Bakeries, Rotterdam
CASEIN—370 bgs, Borden Co, Buenos Aires
CASSIA—250 bls, H M Newhall & Co, Hong Kong
200 bls, D Hecht & Co, Hong Kong
100 bls, S L Jones Co, Hong Kong
100 bls, Sino Java Inc, Hong Kong
CELERYSEED—170 bgs, World Commerce Corp, Bombay
CITRONELLA OIL—5 dms, Lo Curto & Funk, Keelung
CONCENTRATES—14 dms, American Smelting & Refining Co, La Union
COPAL GUM—145 bgs, Henry W Peabody, Manila
COPRA—1,000 tons, El Dorado Oil Works, Tacloban
EUCALYPTUS OIL—13 dms, Sydney
GALLNUTS—336 bgs, Arnhold & Co, Hong Kong
GENTIAN ROOT—6 bgs, Leghorn
GINGER—5 cs, Quon Quon, Hong Kong
GLYCERIN—4 dms, Willits & Co, Barranquilla
GYPSUM—10,367 tons, Kaiser Gypsum Co, San Marcos
JUNIPER BERRIES—5 bgs, Bank of America, Leghorn
MEDICINAL HERBS—29 bgs, Natures Herb Co, Hamburg
OLIVE OIL—165 dms, A Giurlani & Bros, Leghorn
210 dms, Lady's Choice Foods, Malaga
PALM NUTS—5 cs, Sydney
PEATMOSS—1,000 bls, E A Appleby & Co, Bremen
1,275 bls, H M Newhall & Co, Rotterdam
PIMENTO—160 bgs, Kingston
25 bgs, Cunningham & Co, Genoa
100 bgs, S H Tyler & Son, Genoa
50 bgs, D Hecht & Co, Genoa
PITUITARY GLANDS, BEEF—4 cs, Buenos Aires
PYROTECHNICS—2,195 cs, T B Williams, Hong Kong
2,543 cs, L W Loyd Co, Hong Kong
2,711 cs, Wilfong Fireworks Co, Hong Kong
400 cs, V J Tovatt & Co, Hong Kong
RAPESEED—63 bgs, Ferry Morse Seed Co, Rotterdam
RUTILE SAND—540 bgs, Bank of New South Wales, Brisbane
SADDLE SOAP—250 ctns, Benton Co, Liverpool
SAFFRON—2 cs, Monteverde & Parodi, Inc, Marseille
SAGO FLOUR—110 bgs, National Starch Products, Singapore
SESAME SEED—1,344 bgs, Pacific Vegetable Oil Corp, Taku Bar
750 bgs, H M Newhall & Co, Corinto
50 bgs, Balfour Guthrie, Corinto
40 bgs, Cunningham & Co, Hong Kong
SHOE POLISH—375 cs, J Rothschild, Manchester
TANKAGE—800 bgs, Wilson & Co, Buenos Aires
TANNIN & GLUE—6 cs, Alinadore Vineyard, Havre
TEA WASTE—626 bgs, Maise L P Co, Keelung
TUNG OIL—150 tons, Vongher Low China Corp, Hong Kong
200 tons, Murray Oil Products, Hong Kong
400 tons, Arnhold & Co, Hong Kong
UREA—1,000 bgs, Chemical Manufacturing Co, Manchester
WHITING—6,000 bgs, Nicholas H Weitzner, Antwerp
1,800 bgs, Antwerp
ZIRCON SAND—300 bgs, Brisbane

## Sonbert Joins Polychemical

Jack Sonbert, former vice-president and technical director of Lamex Chemical Corporation, has joined the Polychemical Company, Bronx, N. Y. In his new post Mr. Sonbert will direct Polychemical's manufacturing operations of fine chemicals and pharmaceutical specialties. The concern has also formed a special department to market rare and research organic chemicals in pilot and development quantities.

## Phillips Appoints Ronan

Charles R. Phillips Company, Rochester, N. Y., has appointed William P. Ronan & Co., Chicago, as exclusive sales representative in the midwestern area.

# Stearates

ZINC STEARATE — For PHARMACEUTICALS, COSMETICS, RUBBER, PAINTS, VARNISHES, LACQUERS, PLASTICS.

ALUMINUM STEARATE — For PAINTS, VARNISHES, LACQUERS, LUBRICATING GREASES, INKS.

CALCIUM STEARATE — For PAINTS, VARNISHES, LACQUERS, WATER-PROOFING, SURFACE COATINGS.

BARIUM STEARATE

MAGNESIUM STEARATE

*Where Uniformity Is An Achievement*

PLYMOUTH BRAND

*Technical Service Available • Send for Samples and Data*

**M. W. PARSONS**

Imports and PLYMOUTH ORGANIC LABORATORIES, INC., NEW YORK

GENERAL OFFICES: 59 BIERMAN STREET, NEW YORK, N. Y. FACTORY: BUSH TERMINAL BUILDINGS, BROOKLYN, N. Y.

DISTRIBUTION POINTS AND AGENTS IN ALL PRINCIPAL CENTERS

Distributors

THOMPSON-HAYWARD CHEMICAL CO., Kansas City, Mo., and Branches

O. L. WEST Philadelphia, Penna.

HAWXHURST & CO., San Francisco & Los Angeles, Cal.

THE A. G. WATT CO., Cleveland, Ohio

A. L. WEBB AND SONS, 1411 Fleet St., Baltimore, Md.



*Fits into your picture...*

# ALLIED UNIFORM COMPOUNDING

*Thanks to you...* THIS IS OUR 25th ANNIVERSARY

PRECISION in formulation and compounding of Gilsonite, Pitches and Waxes to the specifications of protective coating manufacturers has been the core of Allied Service for a quarter of a century. Our customers have come to depend upon the uniformity of each compound, made possible by our skilled technicians of long experience.

**PITCH COMPOUNDS**

OIL EXTENDERS
Black paints • Varnishes
Baking enamels • Industrial paints
Protective coatings • Drying oil pitches
Various blends—processed to definite specifications and melting points.

**GILSONITE**

ALLIED SUPER SELECTS—Melting point 270°-280° F. Low viscosity, uniform, clean.

FINES—Obtained from Super Selects Ore. M.P. 270°-280° F.

ALLIED E.B. ORE—Melting point 320°-330° F. Medium to high viscosity, uniform, clean.

**WAXES**

Ozokerite • Ceresine • All types for special uses formulated to order

Wherever Pitches, Gilsonite and Waxes fit into your product picture, call on the Allied agent nearest you.

**Allied Asphalt & Mineral Corp.**

ESTABLISHED IN 1925

217 BROADWAY, NEW YORK 7 • FACTORY: DUNELLEN, N. J.

AGENTS AND WAREHOUSE STOCKS IN PRINCIPAL CENTERS

ATLANTA — Deeks & Sprinkel Co.
BALTIMORE — Warner-Graham Co.
BOSTON — Mulcahy & Griffin
BUFFALO — Wetherbee Chemical Co.
CHICAGO — Philip E. Cafe Co.
CINCINNATI — Deeks & Sprinkel
CLEVELAND — Norman G. Schabel Co.
DETROIT — D. H. Osgood Co.
HOUSTON — Jos Coulson Co.
KANSAS CITY — John T. Kennedy Sales Co.
LOS ANGELES — E. B. Taylor Co.
LOUISVILLE — Deeks, Sprinkel & Miller, Inc.
MONTREAL, CAN. — Wm. J. Michaud Co., Ltd.
NEW ORLEANS — Russell Chemical Co.
PHILADELPHIA — Loos & Dilworth, Inc.
PITTSBURGH — B. Ostroff
PORTLAND, ORE. — Miller & Zehrung Chemical Co.
ST. LOUIS — Harry G. Knapp
SAN FRANCISCO — E. M. Wells
SEATTLE — Carl F. Miller & Co.
TORONTO, CAN. — A. S. Paterson

# Economical ALKYD RESIN for HIGH QUALITY FLATS

**ALKYDOL S-1177-A**

A special resin solution recommended for the formulation of low-priced, easy brushing flat wall paints. It provides excellent sealing properties and washability to the finish. The film is free of streaks and wrinkles. It is smooth and hard, with good adhesion, toughness and non-penetrating properties when applied over a porous surface. Alkydol S-1177-A is clear, bright, viscous solution, free of skinning, settling and after-bodying.

*High-quality ALKYDOL Resins are also available for any special requirements of interior and exterior ARCHITECTURAL ENAMELS.*

**S-1177-A PROPERTIES**

| | |
|---|---|
| Solids content by weight | 49-51 % |
| Solvent | Mineral Spirits |
| Pounds per gallon at 77° F. | 7.50-7.60 |
| Specific gravity at 77° F. | 0.90-0.91 |
| Viscosity, Gardner-Holdt Scale, at 77° F. | |
| at 50% solids | $Z_1Z_6$ |
| at 40% solids | N-P |
| at 35% solids | E-F |
| Color, Gardner Scale, 1933 | 10 maximum |
| Acid Value on solids | 15 maximum |
| Tolerance for mineral spirits | Over 100% |
| Tolerance for linseed oil | Over 100% |
| Pigment Compatibility | Reacts with basic pigments |
| Type of resin | Glycerol phthalate, oil and rosin modified |
| Type of oil | Soya Type |

*Request technical data and samples for testing.*

**ALKYDOL Laboratories, Inc.**

3240 SOUTH 50th AVENUE CICERO 50, ILLINOIS

REPRESENTED BY

Theodore C. Kiesel, Cincinnati 13, Ohio — G. S. Robins & Co., St. Louis 12, Mo. — Hukill Chemical Co., Cleveland 3, Ohio — Harry Holland & Son, Inc., Detroit 26, Mich.



*A New Formula for* **Snowballing**

**Production Savings into Increased Profits!**

OTHERS ARE DOING IT right now! Saving money through tank car purchases of BAKELITE BCU-22 liquid urea resin—currently 1¼¢ per pound lower in cost than the price per pound delivered in drums.

The savings quickly pay for storage tanks and distribution pipes at your plant. From there on in, savings become clear profits!

Outstanding companies like Drexel Furniture, U. S. Plywood, Johnson-Carper, American Furniture, Darlington Veneer are already benefiting through tank-car purchase and bulk handling of BCU-22 for their top-quality furniture and plywood. And this excellent chemical intermediate is being evaluated by other industries, too, for paper sizing, cloth treating, fortifying starch adhesive for paperboard and corrugated containers, and bonding wood waste.

You, too, may have a job for BCU-22 that can help improve your product, lower its cost, and snowball your profits! Write us for further details. And by all means let us tell you how a $3,000 (plus labor) storage and distribution system to handle, for example, 60,000 pounds a month can pay for itself in four months—and return 300% on your investment the first year! Write Dept. AZ-40.

**BAKELITE TRADE-MARK BCU-22 UREA RESIN**

BAKELITE DIVISION

*Union Carbide and Carbon Corporation* UCC 30 East 42nd St., New York 17, N. Y.

# Protective Coatings Materials

Titanium dioxide and titanium pigment moved up in price during the past week as one producer, who had previously been holding to old listings, joined the upward trend. Prices from this source were still not as high as those quoted in other directions, and this left the listings with a range. The prices of both domestic standard and imported casein continued their climb upward as demand held good Stocks of the Argentine were in a very tight position.

The cutback in both copper and cobalt had no immediate bearing on products made from those materials, but some repercussions were expected as soon as the practical effects of the cutback became more definite. Cadmium metal moved up in price but by week's end the cadmium colors were unaffected. However, reliable authority indicated that there would very likely be advances before long.

Lead and zinc pigments held as their metals experienced an unchanged, although strong, week. Following revisions during the previous period, lithopone continued at the re-established levels. Mercuric oxides held at the levels previously noted. Mercury was still being watched, to see if it would cause any additional price revisions.

Natural gums remained about where they had been. The supply continued uncertain and in many cases prices were a difficult thing for suppliers to establish. Shellac held its own on price but there was a firmer tone to the market and demand was holding well for this time of the year. Citrates demand was good but supply was tight, with the shortage in citric acid causing most of the trouble.

## Prime Pigments

**Blue, Cobalt** — The cutback in cobalt will probably have some bearing on this material, soon if not immediately, it was stated last week. Although prices were not effected, a revision in schedules was considered a possibility.

**Blue, Copper-Phthalocyanine** — Price-wise, this material showed no immediate effect from the cutback in production of copper that is to go into effect January 1. Just how the cutback would bear on the industry in a practical way would be a large determining factor.

**Cadmium Colors**—The increase of 15c per pound in the price of cadmium metal during the week had no immediate effect on the colors but it was thought likely that there would be advances before long. The price structure was known to be under consideration in at least one quarter at the close of the week.

**Copper Oxide** — The 15% cutback in copper, which is to become effective January 1, had no effect on the market or the price listings of this material during the week, although it was thought that it would eventually have its repercussions. How the industry fared after the cutback went into effect would be a determining factor on price.

**Lead, Metallic Paste** — Demand was holding up at very good levels last week, with a considerable amount of the product moving into government use. Supplies were high enough to accommodate the ordinary needs of the market. The price schedule was:—20,000 to 40,000 pounds, 33½c. per pound; 10,000 to 20,000 pounds, 34c. per pound; 2,000 to 10,000 pounds, 34½c. per pound, and 200 to 2,000 pounds, 35c. per pound.

**Lead Pigments** — The market for lead metal continued strong but unchanged in price during the period under review, and as a result the prices of the pigments, while firm, were without revision.

**Lithopone**—There were no changes noted in the price listings of either the ordinary or titanated grades last week, following the revisions that were made during the previous period. The ordinary was going for 7c. to 7½c. in carloads and 7¾c. to 8½c. in less than carloads. The titanated was worth 9⅝c. in carloads and 10⅝c. in less than carloads.

**Mercuric Oxides**—The price listings of the red and yellow were without change during the past week, following recent fluctuations that left a range in prices for both items. Demand was up to a good point and showed indications of staying there. The supply, however, was marked by tightness. The happenings in this market in the future, it was said, were something that would be influenced to a large extent by what happened in the market for mercury.

### *Market Trends*

**Prices Advanced**

Casein, domestic-standard, 1c. per lb.
Imported, acid-precip., ¾c. per lb.
Rosin, gum, New York, G, H, I, K, M, N, WW, X, 15c. per 100 lbs.
Savannah, 13c. per 100 lbs.
Titanium dioxide, anatase ceramic, chalk resistant, regular, 1½c. per lb.
non-chalking, carloads, 1½c. per lb., less carloads, 2c. per lb.
Pigment, calcium-rutile, base, ¼c. per lb.

**Prices Reduced**

Rosin gum, Savannah, H, I, K, M, 6c. per lb.
Turpentine, gum, New York, tankcars, 7c. per gal.
Savannah, 7¾c. per gal.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Dec. 2, 1949 |
|---|---|---|---|---|
| 211.7 | 211.7 | 211.7 | 196.4 | 196.4 |

(*For Current Prices see Page* 9)

**Titanium Dioxide**—Another maker last week joined the move towards higher prices that was begun a few weeks ago in other quarters of the industry. This brought up the low side of the price range, but left the high side unchanged. Rises of 1½c. were noted for the anatase ceramic, chalk resistant and regular grades. This made the listings for the grades 21c. to 21½c. in carloads and 22c. to 22½c. in less than carloads. The non-chalking grade was also higher by 1½c. in carloads and 2c. in less than carloads. This made the listing 23c. to 23½c. in carloads and 24c. to 24½c. in less than carloads. Market conditions continued about where they had been. Demand was still running along at high levels, although the supply was tight.

**Titanium Pigment** — An advance in price was noted for this material during the past week as demand continued at heavy levels, while the supply left something to be desired. The advance amounted to ¼c. on the low of the range, although there were no changes noted on the high side of the range. The listing became 8c. to 8½c. in carloads and 8½c. to 9c. in less than carloads.

**Zinc Pigments**—The metal was in a strong market during the week, but it still held to its previously established price. Therefore, there were no changes reported in the listings of the pigments, although they held firm and consumer interest was high.

## Synthetic Resins

An increased output of phenolic resins and continued high production of phenolic moulding powders is likely to continue if no further government needs come about for phenol and if there is no very great diversion of benzene from producers, it was stated by a spokeseman for one synthetic resins producer last week. The general picture in the industry indicated a continuing tight supply, with allocations a usual thing at this time. Phenolics production is now up to 22,000,000 pounds a month, which is higher than the previous monthly post-war peak of 20,000,000 pounds. An increase in the demand for moulding powders from manufacturers of military items, it was said, was expected to be more than equal to the decreasing demands from manufacturers of appliances. As far as allocation was concerned, it was thought that phenolics, because of their use in essential applications, would have a high rating. Although phenol is sought by producers of many other products, it was said that the industry could maintain phenolic resins production. Benzol still presents a problem but there was a hope that there might be further expansion in the production facilities of that material.

## Natural Resins

The market for gums was pretty much unchanged during the past week as far as price was concerned. Uncertain conditions at the source made the pricing of material here a difficult thing. Prices were said to be firm there but the availability of material was uncertain. Some days there would be no material offered while a few days later offers would be made again, and this, of course, resulted in uncertainty on the American market. The demand was fair but what with the uncertainty of price and difficulties in obtaining shipments, there was some lack of consumer interest.

**Shellac** — Prices were showing a bit more firmness towards the end of the

*For Late Market Developments, See Page* 4


STEARATES

CALCIUM — LEAD

ZINC — ALUMINUM

*for the*

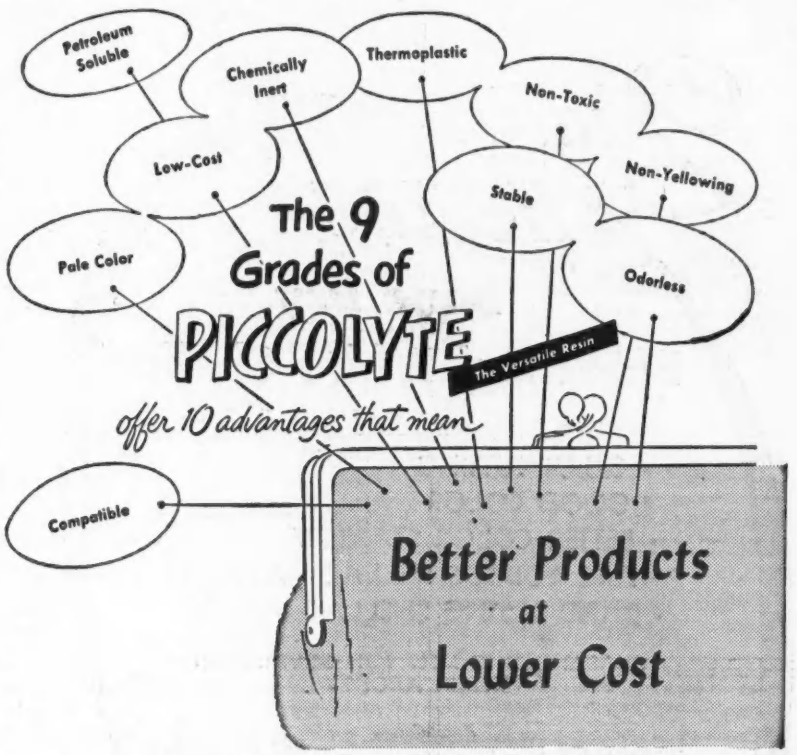
PROTECTIVE COATINGS INDUSTRY

SYNTHETIC PRODUCTS CO.

*Since 1917*

1798 LONDON ROAD CLEVELAND 12, OHIO






PENNSYLVANIA INDUSTRIAL CHEMICAL CORP.

CLAIRTON, PENNSYLVANIA

Plants at Clairton, Pa., West Elizabeth, Pa. and Chester, Pa.

Distributed by: Pennsylvania Falk Chemical Co., Pittsburgh 30, Pa. and Herwick Standard Chemical Co., Akron 5, Ohio

Piccolyte puts money in your pocketbook, because of the opportunities for cost-savings and product-improvement it provides.

Not only is Piccolyte low in cost, but it is soluble in low-cost petroleum solvents, thus presenting you with a double saving. It is pale in color and stable; it is chemically inert, non-toxic and compatible with other resins and ingredients.

We will be glad to send you full information on this remarkable synthetic resin, and free samples. Please state the nature of your application, so that we can send a suitable grade.

HIGH—
PLASTICIZERS
—QUALITY

ADIPATE PLASTICIZERS

ADIPOL* BCA (di-butoxyethyl adipate)
ADIPOL* 2EH (di-2-ethylhexyl adipate)
ADIPOL* 10A (di-iso-octyl adipate)

and also Phthalate, Phosphate, Fatty Type, and Specialty Plasticizers.

Write today for our complete technical catalog "Plasticizers & Chemicals".

* Registered trademark of Ohio-Apex, Inc.

OHIO APEX INC. NITRO W.VA.
OHIO-APEX, INC.
MANUFACTURERS OF PLASTICIZERS & CHEMICALS
NITRO.....WEST VIRGINIA

Mallinckrodt®
STEARATES
STANDARDIZED AND CUSTOM-MADE

ALUMINUM
BARIUM
CALCIUM
MAGNESIUM
STRONTIUM
ZINC

An outstanding line of Stearates—over 20 grades and types. Top quality in any quantity. Samples on request.

MALLINCKRODT CHEMICAL WORKS
Mallinckrodt St., St. Louis 7, Mo. / 72 Gold St., New York 0, N. Y.
CHICAGO / CINCINNATI / CLEVELAND / LOS ANGELES / MONTREAL / PHILADELPHIA / SAN FRANCISCO
Manufacturers of Medicinal, Photographic, Analytical and Industrial Fine Chemicals

Quality
SHELLAC

Bone Dry
Bleached White Shellac

INSURES
• QUICK CUTTING
• GOOD COLOR
• BETTER COLOR STABILITY
• FULL-BODIEDS HELLAC VARNISH
• RAPID-DRYING SHELLAC VARNISH

GUARANTEED TO MEET WITH GOVERNMENT SPECIFICATIONS

*Available in*
*300-Pound Barrels — 150-Pound Bags — 100 Pound Kegs*

Warehouse stocks in principal cities, including Montreal and Toronto

THE MANTROSE CORPORATION
*Importers · Bleachers · Manufacturers*
136-146 FORTY-FIRST STREET
BROOKLYN 32, NEW YORK

week, but were still unchanged from the previously established levels. What with the firmer tone in the market, however, there was no assurance that they would hold at those listings. Demand was running along at reasonably good levels, and as one supplier stated, there were no complaints on that score, especially for the time of year. Normally at this season, there is a greater falling off in demand than there was noted this year. Supplies both here and on the Indian market were reported to be satisfactory to fill the ordinary requirements of the trade without any particular difficulty.

## Miscellaneous Materials

**Casein**—The price of domestic standard increased 1c. per pound during the week, making the new listing 39c. to 40c. Domestic premium held at the formerly established level of 41½c. to 43½c. Imported, acid-precipitated, moved up ¾c. to 37½c. on the low side of the range and ½c. to 37¾c. on the high side. The Argentine market was in a strong position and looked as though it would become stronger. It was hard to obtain supplies there and the reports were that the producers were sold out and can not ship before January.

The higher cost of Argentine material was reportedly one of the reasons for the upping in the price of the domestic. After a big buying spree of a few weeks ago, the demand was leveling off for domestic and was now settled at what were called reasonably good levels. Supply of domestic at the moment was satisfactory although there were no predictions as to what it might be in the future.

**Cobalt Driers**—Oxide, linoleate, naphthenate and resinate were without price change during the period under review but there was no guarantee that the listings would not be revised as a result of the cobalt cutback. The cutback will naturally have its effect on the output of the driers, but as yet it was a little early to tell just what might happen, according to reports.

**Copper Driers**—No immediate predictions were forthcoming last week as to what would happen to the price of these materials as a result of the cutback in copper that will become effective January 1. Prices were unchanged during the week but the practical aspects of the cutback, when it goes into effect, will be a large deciding factor in the price picture.

## Naval Stores

**Pine Gum**—Prices received by producers for crude pine gum delivered to processing plants during the week ended November 25 averaged $29.56 per standard barrel of 435 pounds, according to the Department of Agriculture. This was a decline of 34 cents from the previous week's average of $29.50. The decline reflected principally the reduced turpentine content of the gum and the lower grades of gum obtainable during the slack season.

The twentyone reporting plants received 22,205 barrels of gum, an average of 1,057 barrels per plant compared with 1,250 barrels a week earlier. The average content per barrel was 8.85 gallons of turpentine and 297.5 pounds of rosin. The gum was graded 4 percent WW, 6 percent WG; 33 percent N; 29 percent M; and 28 percent K and below.

## Naval Stores

The record of the gum naval stores markets during the week ended December 1 was as follows:—

### Gum Rosin

| | Price per 100 lbs. Savannah Exchange (Low of range) Mon. | Tues. | Wed. | Thurs. | Fri. | New York c.l., f.o.b. ex N. Y. whse. Friday | l.c.l., ex Friday |
|---|---|---|---|---|---|---|---|
| B | $4.10 | $4.10 | $4.10 | $4.10 | $4.10 | $9.00 | $9.75 |
| D | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 9.00 | 9.75 |
| E | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 9.00 | 9.75 |
| F | 6.60 | 6.60 | 6.60 | 6.60 | 6.60 | 9.00 | 9.75 |
| G | 7.87 | 7.87 | 7.87 | 7.87 | 7.87 | 9.20 | 9.85 |
| H | 7.91 | 7.91 | 7.91 | 7.91 | 7.91 | 9.20 | 9.95 |
| I | 7.91 | 7.91 | 7.91 | 7.91 | 7.91 | 9.20 | 9.95 |
| K | 7.91 | 7.91 | 7.91 | 7.91 | 7.91 | 9.20 | 9.95 |
| M | 7.91 | 7.91 | 7.93 | 7.93 | 7.91 | 9.20 | 9.95 |
| N | 7.91 | 7.91 | 7.97 | 7.97 | 7.97 | 9.25 | 10.00 |
| WG | 8.21 | 8.21 | 8.23 | 8.23 | 8.23 | 9.30 | 10.05 |
| WW | 8.37 | 8.37 | 8.50 | 8.50 | 8.50 | 9.75 | 10.50 |
| X | 8.37 | 8.37 | 8.50 | 8.50 | 8.50 | 9.75 | 10.50 |

| | Drums | | | | |
|---|---|---|---|---|---|
| Sales | 175 | | 325 | | |
| Receipts | 1,390 | 218 | 247 | 1,227 | 655 |
| Shipments | | 2,560 | | 17 | 17,472 |
| Stocks | 38,523 | 36,181 | 36,428 | 37,638 | 22,248 |

### Gum Turpentine

New York, Friday, tankcars, f.o.b.gal. (7 lbs.). .90
ret. dms., l.c.l., ex whse . . . gal. (7 lbs.). 1.05

| | Savannah Exchange, Bulk— Mon. | Tues. | Wed. | Thurs. | Fri. |
|---|---|---|---|---|---|
| Per gal | .85¼ | .83¼ | .78 | .78 | .78 |
| Sales, bbls. | | 240 | 160 | | |
| Receipts, bbls | 178 | 324 | 29 | 85 | 627 |
| Shipments, bbls | | 2,608 | 12 | 456 | 456 |
| Stocks, bbls | 13,638 | 11,354 | 11,371 | 11,000 | 12,094 |

* No market.

## Lacquer Materials

**Citrates**—The demand was running well beyond the supply during the week and it

here's EVERYTHING you need in pigments and extenders

108 shades and types of iron oxide pigments (synthetic and natural)—64 reds, 24 browns, 18 yellows, and 2 blacks.
Metallic browns, Venetian reds, ochers, umbers, and siennas.
3 Chromium oxides and 2 hydrates.
Cuprous oxide.
Barytes, anhydrous calcium sulfate, precipitated calcium carbonate and whiting.

For complete TECH-REPORTS address Dept. 12, C.K. WILLIAMS & CO., Easton, Pa.

WILLIAMS
COLORS & PIGMENTS
C. K. WILLIAMS & CO.
Easton, Pennsylvania
East St. Louis, Illinois
Emeryville, California

was reported by one source that the material was strictly on an allocation basis. The shortage in citric acid was largely responsible for the situation, although it was said that after mid-year there were hopes that there would be a greater production of citric acid and that this would go far towards relieving the tight situation in supply. The price listings on acetyltributyl, acetyltriethyl, tributyl and triethyl technical were the same at 35½c. in drums and 71c. in the smallest packages. The triethyl, refined, was listed at 71c. in drums and 96c. in the smallest packages.

## U. S. Barite Production, Consumption in '49 Down

Domestic production and consumption of barite declined in 1949, according to the Bureau of Mines. Arkansas remained the leading producer with almost half of the total, nearly twice that of the next state, Missouri. New production was reported from New Mexico and South Carolina. Well drilling again took the major portion of the barite consumed. There was a sharp decrease in the tonnage consumed in lithopone.

Crude barite was imported from Canada, Yugoslavia, Italy, and Mexico, but total tonnage was the lowest in several years. Operations of one major company, located near Walton, Nova Scotia, were discontinued temporarily in December. A large new deposit of barite was dicovered in the Republic of the Philippines.

Salient statistics of the barite and barium-chemical industries in the United States in 1949 as compared with 1948 follow:—

| | 1949 | 1948 |
|---|---|---|
| Barite: | | |
| Primary: | | |
| Produced ... short tons. | 731,308 | 777,841 |
| Sold or used by producers: | | |
| Short tons | 717,313 | 799,848 |
| Value | $5,642,226 | $6,693,413 |
| Imports for consumption: | | |
| Short tons | 26,178 | 53,204 |
| Value | $192,567 | $443,515 |
| Consumption short tons. | 719,543 | 894,309 |
| Ground and crushed sold by producers: | | |
| Short tons | 554,028 | 631,424 |
| Value | $10,156,590 | $11,195,365 |
| Barium chemicals sold by producers: | | |
| Short tons | 56,792 | 71,717 |
| Value | $5,646,403 | $7,028,058 |
| Lithopone sold or used by producers: | | |
| Short tons | 78,335 | 140,033 |
| Value | $8,977,178 | $16,135,976 |

## Carbon Black Production Reported 6% Off in 1949

Production of carbon black declined 6 percent to 1,223,636,000 pounds, while sales declined 10 percent to 1,125,410,000 pounds, according to the Bureau of Mines. Producers' stocks during the year increased 98,218,000 pounds to 216,461,000 pounds.

Contact-black production decreased by nearly 50,000,000 pounds and furnace black by nearly 25,000,000 pounds. The decline in sales was confined principally to contact grades. Sales of furnace grades dropped only 1 percent. Export sales declined, for the first time since 1943, to 303,244,000 pounds.

Salient statistics of carbon black produced from natural gas and liquid hydrocarbons in the United States in 1949 as compared with 1948 follow:—

| THOUSAND POUNDS | 1949 | 1948 |
|---|---|---|
| Production: | | |
| Contact process (chiefly channel) | 627,650 | 677,133 |
| Furnace processes | 595,986 | 620,596 |
| Total | 1,223,636 | 1,297,729 |
| Sales: | | |
| Domestic | 822,166 | 932,433 |
| Export | 303,244 | 321,915 |
| Total | 1,125,410 | 1,254,348 |
| Losses | 8 | 250 |
| Stocks of producers Dec. 31.. | 216,461 | 118,243 |
| VALUE | | |
| Production thousand dollars. | 74,685 | 76,295 |
| Average per pound cents. | 6.10 | 5.88 |

## American Cyanamid Designs Rosin Size Emulsifier Unit

A commercial unit for the automatic and continuous emulsification of liquid rosin size has been designed by the American Cyanamid Company, New York, working in close coopera'ion with the paper industry.

The new Cyanamid unit, in operation for several months, is said to be extremely compact, taking up more space than an ordinary office desk, and flexible in capacity, handling up to twelve tankcars of rosin size per mon'h. Dilute emulsion can be supplied as 'ow as 1.5 percent concentration without need of additional storage facilities. Unlike the conventional "batch" type process, operation with the Cyanamid emulsifier unit is automatic. Accuracy of dilute size is claimed within plus or minus 0.1 percent of the desired solids content of the emulsion.

## Socony-Vacuum Derations 'S/V Sovaloid C' Offerings

With expansion of manufacturing facilities at the company's refinery in Olean N. Y., the Socony-Vacuum Oil Company, New York, has announced that "S/V Sovaloid C," a plasticizer, is now available to the vinyl resin and nitrile rubber industries in unrestricted quantities. Socony was forced for many months to ration supplies of the product because demand outstripped the available production facilities.

## *Trade Briefs*

**A. G. Anderson,** general traffic manager of the Socony-Vacuum Oil Company, New York, has been elected president of the National Industrial Traffic League.

**Robert H. Scheirer,** art director of Devoe & Raynolds Company, New York, since 1948, has been appointed assistant advertising director of the company.

**Pratt & Lambert,** Inc., Buffalo, N. Y., has been awarded a building permit to erect a storage building on its property at 189 Tonawanda street at an estimated cost of $20,000.

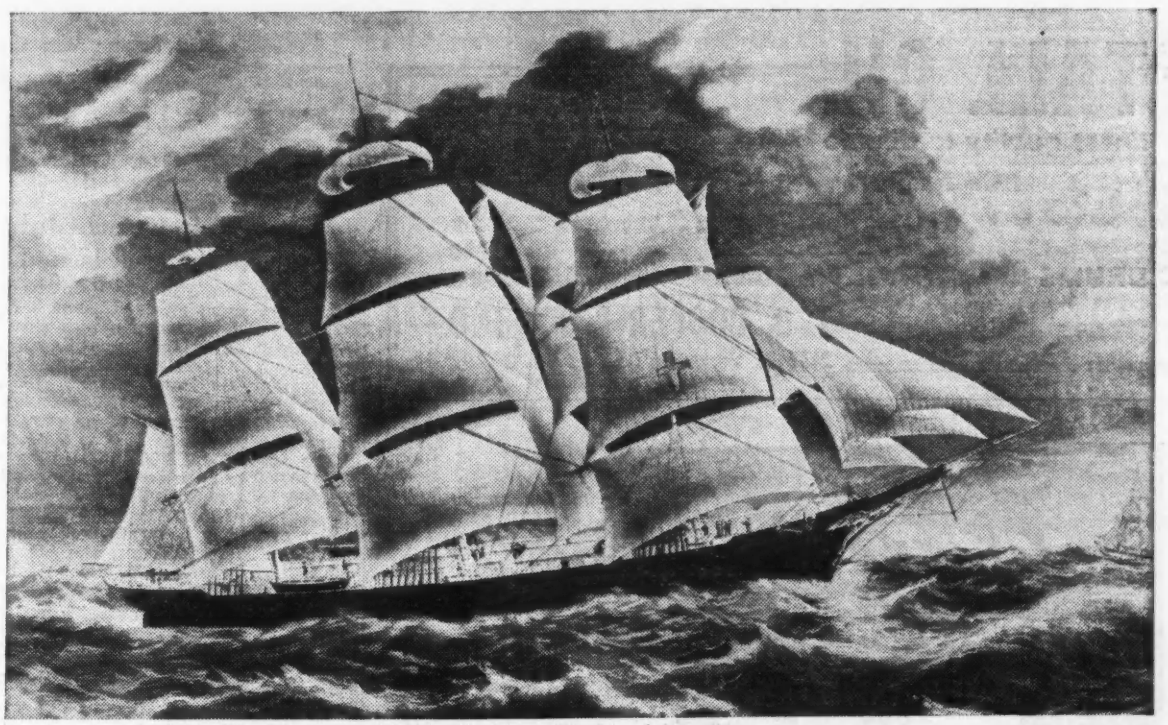
HARCHEM MANUFACTURERS OF FINE CHEMICALS FOR INDUSTRY

HARFLEX PLASTICIZERS
for VINYL RESINS
and SYNTHETIC RUBBERS

HARDESTY CHEMICAL CO., INC.
41 EAST 42nd ST., NEW YORK 17, N. Y.

PIONEERS OF THE CENTURY

SECOND OF A SERIES



The clipper ship era, launched in 1845, sailed into fame on winds of the gold-rush frenzy. Although it reached its zenith in 1852, not until many years later could steam-driven craft equal the speed record of such clippers as the Flying Cloud. BETTMANN ARCHIVE

1852 — The Clipper Ship

"IT'S that Yankee ingenuity," moaned British shipowners when New England's clippers cut into their lucrative business of carrying gold-rush hordes to California and hauling tea from China.

Yankee builders had seen that the times called for faster ships—a type that could sail the 19,000 miles 'round the Horn to San Francisco in 3 months instead of 13. So they cut away from the bulky orthodox designs and pioneered the trim, sleek clipper that put this country out in front on the high seas.

At the same time, ingenuity was proving a boon to other pioneers. The New Jersey Zinc Co., organized in 1848 for the purpose of smelting zinc from domestic ore, was running into one snag after another, even as its predecessors had.

But we contrived new and unique methods on each occasion and, after 4 years of continuous experimenting, discovered a means of producing Zinc Oxide directly from the ore and collecting it in large muslin bags. Known as the American Process, it proved to be the key to the start of the ready-mixed paint industry a few years later . . . and its Zinc Oxide was the first Horse Head pigment.

For over a century, The New Jersey Zinc Co. has continued to pioneer outstanding developments, many of which have helped speed the progress of the paint industry.

HORSE HEAD ZINC PIGMENTS
*The Pioneer Line*
*Most used by paint manufacturers since 1860*

THE NEW JERSEY ZINC COMPANY
*Founded 1848*
160 Front Street, New York 7, N. Y.

HORSE HEAD PRODUCTS

DC
ANTIFOAM
A
—the most versatile and efficient defoamer on the market
A DOW CORNING SILICONE PRODUCT
Dow Corning
MIDLAND · MICHIGAN
Write Dept. O today for free sample.

MANUFACTURERS OF
ALUMINUM POWDER
FLAKE AND GRAIN FORM FOR ALL PURPOSES
READE MANUFACTURING CO., INC.
Main Office: JERSEY CITY 2, N. J. • Tel.: Journal Square 2-3012 • Works: LAKEHURST, N. J.

TALL OIL
finest quality available
REFINED • CRUDE
Immediate Shipment
DRUMS • TANKWAGONS • TANKCARS
T. G. COOPER & CO., INC.
2400 E. Venango St., Phila. 34, Pa.

PROTECTIVE
coatings
FOR GOVERNMENT FORMULAS
USED AND APPROVED IN WORLD WAR II
#680 RED OXIDE — For making rust-inhibitive primers, also used in protective coatings for ammunition boxes. High Iron Oxide content, good suspension and easy grinding.
#680 YELLOW OXIDE — Ideal for use in formulating Olive Drab coating, lusterless, semi-gloss and gloss. Also used in formulating Government camouflage paints.
#680 MINERAL BLACK — To make Black Lusterless paint for use over sealed wood, as on wood barges above waterline. Also for use in other Government specification coatings.
#680 MULTICEL — A Diatomaceous Silica, generally used as a flatting agent and extender pigment. This grade will produce a non-secular flatness required in the lusterless enamels covered by Government specifications.
#680 SILVATEEN SILICA — This grade is classed as an Amorphous Colloidal Silica, recommended for use in lusterless Olive Drab and any other coating that has to stand infra-red tests.
Special information...
TAMMS INDUSTRIES, Inc.
FORMERLY TAMMS SILICA CO. | DEPT. RM-18, 228 N. LA SALLE ST., CHICAGO 1, ILL.
All of the above 5 raw materials were prominent during World War II—Government references being Spec. 680-A — AXS-684 — AXS-1077 — 5259— and Formula 16X.

## Asbestos Supply in 1949 Upset by Canadian Strike

Although there were indications early in 1949 that supply and demand were coming into balance, the situation was completely changed by a long strike in the Canadian asbestos field, according to the Bureau of Mines. During the strike stocks in consumers' hands approached exhaustion and after the settlement asbestos was generally in short supply as consumers attempted to catch up on the backlog and accumulate working stocks.

In the United States a new asbestos production record was established, but only a small part (8 percent) of our total requirements were supplied from domestic mines. Although demand in the United States was at a high level, imports from foreign sources were lower than in the record year of 1948 because of the strike in Canada. Small quantities of chrysotile were imported from Southern Rhodesia and Russia. South Africa supplied all of the amosite and nearly all of the crocidolite consumed in this country. Interest in Bolivian crocidolite was reported to be growing.

Salient statistics of the asbestos industry in the United States in 1949 as compared with 1948 follow:—

| | 1949 Short tons | 1949 Value | 1948 Short tons | 1948 Value |
|---|---|---|---|---|
| Domestic asbestos— Produced | 42,918 | [1] | 37,237 | [1] |
| Sold or used by producers | 43,387 | $2,614,416 | 37,092 | $1,806,261 |
| Imports (unmanufactured) | 815,303 | 33,939,582 | 647,881 | 37,974,092 |
| Exports (unmanufactured) | 17,621 | 3,618,703 | 6,530 | 1,173,259 |
| Apparent consumption[2] | 541,069 | 32,935,295 | 678,443 | 38,607,094 |
| Exports of asbestos products | [1] | 10,898,017 | [1] | 10,471,059 |

[1] Figure not available.
[2] Quantity sold or used by producers, plus imports, minus exports.

## Japanese Import Schedule From Dollar Area Issued

The Japanese Ministry of International Trade and Industry, in its import Notice No. 33, listed the commodities permitted into Japan under the automatic approval system. The foreign exchange import budget for October-December, 1950, allocated a total of $116,170,000 for imports under the automatic approval system, $28,000,000 of which is allocated to dollar area, $50,000,000 to sterling area, $33,170,000 to open account area, and $5,000,000 to others. It is estimated that $25,000,000 of the $28,000,000 allocated to dollar area may be available for imports from the United States, the other $3,000,000 being presently allocated to the Belgian monetary area.

The number of commodities under the system has been increased from sixty-five to 112. Those commodities permitted import from the United States under the system include the following:—

Cotton linter raw, cotton linter pulp, copper ore, zinc ore, antimony ore, nickel ore, bauxite, molybdenum, cobalt metal, white bauxite, high aluminous shale and clay, ilmenite, gilsonite, talc, gypsum, emery powder, tripoli powder, sodium nitrate, asbestos, morax ore, bone meal, and rennet casein.

Also lactic casein, wattle bark and its extracts, quebracho extract, mangrove bark, sealing compound, cobalt oxide, logwood extract, hematine extract, alkali blue toner, sticklac, gum tragacanth, gum copal, gum dammar, gum arabic, pearl essence, cattle bone, ossein, animal glue materials, lactose, beeswax, copra, cottonseed, castor seed, kapok seed, perilla seed, hemp seed, tung oil, palm oil, olive oil, oiticica oil, ceresine wax, aureomycin, chloromycetin, terramycin, and licorice root.

## Wisconsin Lead-Zinc Deposit Data Issued by Mines Bureau

A Bureau of Mines report summarizing results of an investigation of the White zinc-lead deposit in LaFayette County, Wis., has been released by Secretary of the Interior Oscar L. Chapman. The report contains tables of drill-hole data and results of sample analyses. It also includes a history of lead production in the district as well as discussion of geographical and geological features.

A free copy of Report of Investigations 4722, "Investigation of the White Lead-Zinc Deposit, LaFayette County, Wis.," may be obtained by writing to the Bureau of Mines, publications distribution section, 4800 Forbes street, Pittsburgh 13, Pa.

THE THREE GLIDDEN GUARDSMEN
Glidden
GUAI-A-PHENE
GLIDCOL-REGULAR
GLIDCOL-WW
All for anti-skinning—
One for every specific requirement
SOLD BY
E. W. COLLEDGE
G. S. A., INC.
P. O. Box 389
Jacksonville 1, Fla.
52 Vanderbilt Ave. New York 17, N.Y.
25 E. Jackson Blvd. Chicago 4, Ill.
807 National City Bank Bldg. Cleveland 14, Ohio
103 Market St. San Francisco 4, Calif

SUPERLITH LX
DOUBLE STRENGTH LITHOPONE
60% Zinc Sulphide
C. J. OSBORN CO. Established 1889 132 Nassau Street, NEW YORK 7

INTERNATIO-ROTTERDAM, INC.
52 BROADWAY, NEW YORK, N. Y., WHitehall 3-3200
Natural Resins Tapioca Flour
Singapore East India Congo Java Brazil Siam
All Grades Spot & Futures
Associates in all Major Producing Areas

# Oils, Fats and Waxes

Crude vegetable oils rallied last week as a result of unfavorable Korean war news and regained losses sustained the week previous. The market was erratic and fluctuated with the movement of soybeans and cotton. Trading was limited with buyers upset, who preferred to await developments. Price index advanced 2.4 points.

Soybean oil led the advance with higher soybeans, stimulating competing oils. Cottonseed and corn oils also were higher, while peanut oil was unsettled by increased production.

Tallow and greases were firm and fractionally higher. Trading was reported fairly active for domestic and export account. Offerings were materially reduced and soapers took moderate quantities at the advance. Other animal oils reflected this strength and remained firm, despite quiet demand.

Linseed oil was again lifted fractionally due to the increased cost of flaxseed. Trading at the advance was reported inactive as most consumers were reported covered through the first quarter next year. Other drying oils were unchanged and firm. Tung oil was in good demand at unchanged levels and dehydrated castor was firm at the recent price boost. Refined fish oil was steadier, reflecting the higher cost of crude oil. Crude menhaden and sardine oils were scarce and light sales of the latter took place at an increase of 1 cent per pound.

Edible olive oil was firmer, due to the stronger primary markets. While imports of edible oil were heavy last week, there was less selling pressure in the spot market and bids at previous levels were turned down. Olive foots also were stronger owing to increased cost of replacements.

## Cottonseed Oil

Bleachable cottonseed oil futures market was nervous and irregular last week due to unfavorable Korean war news. Trading was active, chiefly speculative, with buying for consuming account limited. Market was extremely sensitive and was swayed either way by allied commodities and the war situation. Reaction in crude cottonseed and soybean oils regaining losses sustained the week previous helped to keep futures on a steady basis.

Refined cottonseed oil consumption during October totaled 1,815 tankcars, compared with 1,849 in September and 2,050 in October last year. Total disappearance during August-October inclusive amounted to 6,128 tankcars against 6,190 for the same period last year.

Crude cottonseed oil registered a net gain of ¾c. per pound from the low of a week ago. Trading was restricted by the scarcity of offerings. Sales were reported at 21c. per pound, tankcars, f.o.b. mills, Southeast and Valley and 20¾c. Texas. At the close offerings were well held at ¼c. more.

Sales and prices of refined bleachable prime summer yellow cottonseed oil in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended December 1, follow:—

| | Sales | Cents per pound High | Low | Close |
|---|---|---|---|---|
| December | 149 | 24.00 | 22.25 | 23.80 @23.98 |
| March | 1,158 | 24.06 | 21.85 | 23.08S |
| May | 1,354 | 23.85 | 21.70 | 22.98S |
| July | 853 | 23.50 | 21.70 | 22.85S |
| September | 112 | 21.65 | 20.25 | 21.55S |
| October | 9 | 19.55 | 18.85 | 19.20 @19.60 |

Total sales, 3,635 tankcars, including switches.

*Memphis.*—Crude cottonseed oil quoted at 21c. per pound, and crude soybean oil 18½c. per pound, tankcars, f.o.b. mills, prompt shipment. Trading light. Cottonseed meal, 41 percent quoted at $79 per ton, sacked, Memphis. Slab cake held at $71 per ton, bulk, f.o.b. Valley points and hulls, $22 per ton, same basis.

## Linseed Oil

Increased cost of flaxseed further strengthened linseed oil and quotations were raised fractionally last week. Raw oil was lifted to 16.90c. per pound, tankcars, zone 3 for December delivery and to 16.70c. for January-June. Spot oil was advanced ½c. per pound and January forward 8/10c. per pound. Trading was active before the higher schedule became effective. Consumers also stepped up demand for oil against current contracts.

*Minneapolis.*—Raw linseed oil prices were boosted again last week but this new move by crushers did not uncover much new business. A good portion of trade appeared to be fairly well booked through the first quarter of 1951 and the tendency was to "wait and see" what develops on the worldwide battlefront. There was the usual fill-in trade and some extension of coverage which just about equalled shipments. Raw linseed oil in tankcars, zone 1, for December shipment was boosted to 16.30c. a pound, and January-June to 16.10c. a pound Shipping directions tapered off a bit last week.

Shipments of linseed oil, in pounds, were as follows:—

| | 1950-51 | 1949-50 |
|---|---|---|
| Past week | 7,920,000 | 5,640,000 |
| Since Sept. 1 | 125,300,000 | 121,560,000 |

**Flaxseed**—Prices were higher due to light seed offerings and improved demand.

*Minneapolis.*—Flaxseed crushers were offered very little seed by producers last week. Offerings were so poor that only 10 "spot" cars and 38 "to-arrive" cars were picked up during the lean week. Early sales were made at $3.50 a bushel for No. 1 seed, but late in the week market advanced to $3.60 for spot and to-arrive offerings. Actual receipts totaled only 147 cars, as against 261 in the preceding week and 154 cars in the same week last year. Of the receipts, 10 were spot cars, a few went on CCC account and the balance applied on previous to-arrive bookings.

Receipts and shipments of flaxseed, in bushels, were as follows:—

| Bushels— | Receipts 1950-51 | Receipts 1949-50 | Shipments 1950-51 | Shipments 1949-50 |
|---|---|---|---|---|
| Past week | 256,700 | 283,900 | 22,100 | 67,000 |
| Since Sept. 1 | 17,657,500 | 9,414,600 | 2,137,900 | 996,900 |

## Other Vegetable Oils

**Castor Dehydrated**—This market continued firm with the high cost of castor bean replacements. Trading was reported fairly active.

**Coconut**—Crude oil was well held at 17¼c. per pound, tankcars, f.o.b. Pacific coast. Sales took place at 17c., same basis for January shipment.

**Copra**—Market was steady and held at $220 per short ton, c.i.f. Pacific coast. Trading was light.

**Corn**—This market was steady, though trading was limited. Crude oil was sold at 21½c. per pound, tankcars, f.o.b. mills. Refined oil was quoted at 25¼c. per pound, tankcars, New York delivery.

**Olive**—Firmer primary market created a steadier tone locally and prices of edible oil were stronger at $2.80 to $2.90 per gallon, drums, duty paid on spot. Supplies on spot were ample, but holders refused lower bids. Olive foots were firmer and held at 17½c. to 17¾c. per pound, drums, spot as to quantity. Imports of edible oil totaled 9,820 drums at New York from Spain last week.

**Peanut**—Consuming demand was light. Crude oil was easy and sold 21½c. per pound, tankcars, f.o.b. mills, November-December shipment. The government last week released peanuts for 58 tankcars of oil in the southeast. Refined oil was quoted at 25½c. per pound, tankcars, New York delivery.

**Soybean**—This market was erratic with fluctuations of soybeans, but advanced ½c. to 1c. as to position. Crude oil was higher with sales up to 19c. per pound, tankcars, f.o.b. mills, immediate shipment. December was moved at 18¼c. and 18½c. asked. January was quoted at 17½c. and June-September, 16c. Refined oil was higher at 21.90c. per pound, tankcars, New York basis.

Crude soybean oil consumption was indicated at 2,959 tankcars during October, compared with 2,690 for the same time last year. Visible supply was estimated at 10,883 tankcars, end of October, compared with 11,707 a year ago.

PMA reported purchases of soybean oil as of November 16 of 1,903,840 pounds of hydrogenated edible oil at 21½c. and 21¾c. per pound and 143 tankcars of crude oil at 16½c. and 16¾c. per pound.

Sales and prices of prime crude soybean oil on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended December 1 follow:—

| | Sales | Cents per pound High | Low | Close |
|---|---|---|---|---|
| December | 121 | 18.80 | 16.25 | 16.80S |
| January | 20 | 17.90 | 16.90 | 17.90S |
| March | 278 | 16.85 | 14.35 | 16.82S |
| May | 508 | 16.30 | 14.15 | 16.24S |
| July | 333 | 16.25 | 14.00 | 16.05S |
| September | 13 | 15.85 | 14.30 | 15.85S |
| October | | | | 15.00N |

Total sales, 1,273 tankcars and switches.

**Tung**—Trading was active for prompt and forward delivery at unchanged prices.

### Market Trends

**Prices Advanced**

Corn oil, ½c. per lb.
Cottonseed oil, ¾c. per lb.
Greases, ¼c. per lb.
Lard, ¾c. per lb.
Linseed oil, ½c. to 8/10c. per lb.
Olive oil, edible, 5c. per gal.
foots, ¼c. per lb.
Sardine, crude, 1c. per lb.
Soybean oil, 1c. to ½c. per lb.

**Prices Reduced**

Peanut oil, ½c. per lb.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week | Prev. week | Last month | Dec. 30, 1949 | Dec. 2, 1949 |
|---|---|---|---|---|
| 179.6 | 177.2 | 165.8 | 111.3 | 109.4 |

(For Current Prices see Page 9)

For Late Market Developments, See Page 4

TALLOW FATTY ACIDS GLYCERINE STEARIC ACID RED OIL WHITE OLEINE USP
Glycerine
88% SAPONIFICATION CRUDE
Tankcars - Drums
A. GROSS & Company

STEARIC ACID
OLEIC ACID (RED OIL)
DISTILLED FATTY ACIDS
ANIMAL AND VEGETABLE
WILSON & CO. INC.
WILSON-MARTIN DIV.
SNYDER AND SWANSON ST PHILADELPHIA PA

E. A. BROMUND COMPANY
Celebrating Our Seventieth Anniversary
Snowflake Brand
White Sunbleached
U.S.P. Beeswax
Carnauba Wax
Ceresine Wax
Diamond Brand
Yellow Beeswax
258 BROADWAY, NEW YORK 7, N. Y.
BArclay 7-8445 Est. 1880

CARNAUBA & CANDELILLA
HIGH M.P. SUBSTITUTE
BEES & JAPAN WAX
ORANGE BLEACHED SHELLAC
WM. DIEHL & CO.
332 W. 42nd St., N. Y. 18. BR 9-5211

NICKEL CATALYST FLAKES Patented
For Hydrogenation of Edible and Inedible Oils
Write for Literature
RUFERT CHEMICAL COMPANY
SEYMOUR, CONNECTICUT • PHONE SEYMOUR 2504

GEORGE A. MIEL CO., INC.
Custom Wax Blending
Drumming Bleaching WAXES Barrelling Refining
P. O. Box 263, Foot of Page Ave., Lyndhurst, N. J.
RUtherford 2-7985

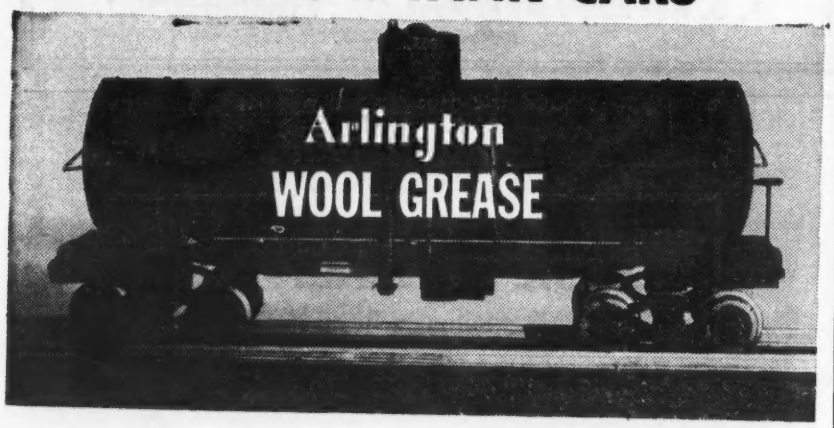
RED OIL STEARIC ACID
Saponified — Distilled
HYDROGENATED FATTY ACIDS (HYDREX)
Cottonseed Oil Fatty Acids
Tallow Fatty Acids
Corn Oil Fatty Acids
Specialty Fatty Acid
GLYCERINE
PITCH
WHITE OLEINE
W. C. HARDESTY CO., INC.
HARDESTY PRODUCTS ARE INDUSTRY'S KEYSTONE
ESTABLISHED 1926
FACTORIES: DOVER, OHIO LOS ANGELES, CALIF TORONTO, CAN

BEESWAX
U.S.P. YELLOW REFINED
U.S.P. WHITE SUNBLEACHED
THE F. B. KOSTER
WAX REFINING CO.
GUILFORD Phone 999 CONN.



All Pure Commercial
WAXES
Carnauba — Ouricury — Beeswax
Sole Agents
GENUINE
*Riebeck Brand
Montan Wax
STROHMEYER & ARPE CO.
139 Franklin St., New York, N. Y.
*Reg.



Since 1896
the source of supply of
WOOL GREASE
from
DRUMS to TANK CARS


Whitman PRODUCTS
WILLIAM Whitman COMPANY, INC.
ARLINGTON DIVISION
261 Fifth Avenue, New York
Telephone: ORegon 9-1000


Market was firm and offerings were not liberal. Sales took place at 25¼c. per pound, tankcars, New York, December forward delivery, with some sellers holding at ¼c. more. Heavy imports at New York were quite heavy last week and kept the market from advancing. Arrivals totaled 2,537 tons and 735 drums.

## Fats and Greases

**Greases**—This market was stronger and quotations were lifted ¼c. per pound. Offerings were limited and sales of moderate quantities took place at the advance. Export inquiry was active and quotations were ½c. to ¾c. above domestic levels. Choice white was scarce and nominal at 14c. per pound, tankcars, delivered; yellow was quoted at 11¼c. to 11½c. and house, 10¾c., same basis.

**Lards**—Improved trading especially for export and firmer vegetable oils stiffened this market. Pure refined lard was quoted at 17½c. per pound, containers, f.a.s. Cash lard was higher and nominal at 15c. per pound, tierces, Chicago.

**Tallow**—Limited offers and improved demand lifted the market ¼c. per pound.

## *Margarine Output: Oct.*

Margarine production totaled 73,940,000 pounds in October, compared with 64,829,000 pounds in September, and 75,470,720 pounds in October last year, according to the Census Bureau.

**Production, Shipments and Stocks of Oleomargarine**

| | Pounds | |
|---|---|---|
| | Uncolored Oct. | Colored Oct. |
| Stocks—beginning of month* | 5,357,000 | 7,595,000 |
| Production | 23,808,000 | 50,132,000 |
| Shipments | 24,807,000 | 51,168,000 |
| Stocks—end of month* | 4,358,000 | 6,559,000 |
| Production by type of package: | | |
| One pound: | | |
| Regular (Elgin, Western, etc.) | 12,351,000 | 48,550,000 |
| Bags (plastic) | 7,729,000 | ..... |
| Bulk: | | |
| Pats or chips | ..... | 537 |
| Over one pound (excluding pats and chips) | 3,729,000 | 1,065,000 |

**Production Totals of Oleomargarine**

| | Uncolored | Colored |
|---|---|---|
| 1950—10 mos. (Jan.-Oct.) | 371,796,000 | 380,923,000 |
| 1949—10 mos. (Jan.-Oct.) | 578,437,000 | 133,303,000 |
| 1949 annual production | 682,747,000 | 177,218,000 |
| 1948 annual production | 811,645,000 | 96,397,000 |
| 1947 annual production | 686,877,000 | 59,051,000 |

* Stocks held at producing plants only. Total factory and warehouse stocks at the beginning and end of October were 16,811 thousand pounds and 14,676 thousand pounds, respectively.

Large buyers purchased moderate quantities of fancy at 14¼c. per pound, tankcars, delivered. Extra was higher at 14c. and special, 13¼c. Lower bids were turned down. Export inquiry was keen, and prices were quoted ½c. above domestic levels.

## Animal Oils

This market remained firm with the strength of tallow and greases. Trading in greases oils was light and spotty at unchanged prices, chiefly for prompt requirements. Oleo oil was scarce and in good demand ranging from 18c. to 18½c. per pound, tierces. Oleo stearine was steady at 17c. to 17½c. per pound, barrels.

## Fish Oils

**Refined**—Increased cost of crude has stiffened the market though prices of refined were unchanged. Light cold pressed was maintained at 16c. per pound, tankcars and alkali refined, 1c. higher. Light trading took place in crude sardine at 14c. per pound, tankcars, f.o.b. Pacific coast, guaranteed delivery. Crude menhaden was merely nominal at 13c., tankcars, Baltimore. Fishing was poor last week on Atlantic and Pacific coasts due to high winds and fogs.

*Los Angeles.*—Pilchard landings have been extremely poor the last week due to the light-of-the-moon period as well as heavy fogs off the Southern California coast. Offerings of crude sardine oil have been light with a few cars moved at 13½c. per pound, f.o.b. San Pedro and later at 14c. Crude tuna oil quoted nominally at 9½c.-10c. per pound, f.o.b. San Pedro.

## Fatty Acids

Active demand was noted for most varieties against current contracts, while


PALM
SOAP
Write for Quotations and
Sample. Adequate Stocks
Manufactured by
GENERAL BIOCHEMICALS, INC.
53 Laboratory Park, Chagrin Falls, Ohio



BUY AMERICAN
We carry a
year round supply
of domestic tung oil
CROSBY FOREST PRODUCTS CO.
Picayune, Mississippi
Millers American Tung Oil

new business was light. Market remained firm and unchanged. Red oil and stearic acid were well held at unchanged prices and reflected the firmness of tallow and greases. Vegetable oil acids were in moderate demand and were strong with basic oils.

## Cake and Meal

**Cottonseed Cake and Meal**—Forty-one percent slab cake moved in limited quantities at $71.50 per ton f.o.b. Mississippi Valley points, December shipment, and $70 for January-February-March. There is no surplus of meal in the southeast and prices remain firm. Forty-one percent sacked meal was quoted at $78 Memphis and $80. Alabama, Georgia and South Carolina mills.

**Linseed Meal**—Withdrawals against contracts were heavy, while new business was reported slow. Prices were steady.

*Minneapolis.*—Linseed meal prices held generally steady at recent decline due to continued resale pressure and heavy output. Extracted linseed meal for spot shipment was quoted around $56 a ton, bulk, in carlots, f.o.b., Minneapolis; December at $57 and January-April shipment at $58.50. Expeller meal was held at $57 a ton for spot shipment and $58 for balance of December. Shipping directions continued heavy.

Shipments of linseed meal, in pounds, were as follows:—

| | 1950-51 | 1949-50 |
|---|---|---|
| Past week | 22,080,000 | 20,040,000 |
| Since Sept. 1 | 256,780,000 | 246,330,000 |

**Peanut Meal**—Demand for meal was only fair, with an adequate supply available. Forty-five percent process meal was offered at $63 to $64 per ton, basis South Alabama, and $64 to $65 basis South Georgia mills, immediate through December. Offers for January forward are thin, since peanuts are still controlled by the government, and mills did not wish to sell short.

**Soybean Meal**—Forty-four percent bulk meal was offered at $60.50 Decatur, immediate shipment, with 41 percent quoted 50c. to $1 per ton less. Forty-one and 44 percent southeastern production was fairly steady at $64 to $65 per ton, sacked, Mississippi Valley points; $69 to $70, Alabama; $70 to $71, Georgia; $72 South Carolina, and $74 North Carolina mills, December shipment. Trading continued light, with supplies ample.

## Waxes

**Beeswax**—Trading was reported slow. Market remained steady, with the firmness of crude. Offers for shipment were light and quoted higher. Refined grades were quotably unchanged, while crude was higher on spot with the increased cost of replacements. African crude was quoted at 56c. to 58c. per pound, spot, as to quantity; Brazilian, 58c. to 60c., and Central American, 56c. to 58c.

**Carnauba**—Market was firm with the high cost of replacements. Offers for shipment from Brazil were limited and higher than the spot market. Trading was reported quiet. No. 3 crude was quoted at 96c. to 98c. per pound, and refined, $1 to $1.02 per pound, as to quantity; No. 1, yellow, $1.05 to $1.06 per pound, and No. 2, $1.03 to $1.05.

**Ouricury**—Refined was firm, ranging from 85c. to 87c. per pound, spot, as to quantity. Stocks on spot were light. Demand was slow.

## German Potash Group Assets in U. S. Vested

Assets in the United States of Deutsches Kalisyndikat and two related organizations have been vested in the Attorney-General of the United States by OAP vesting order 15709, entered November 16. The assets include various accounts in ten or more banks in the United States in the names of the Kalisyndikat, Mitteldeutsche Montanwerke, and N. V. Overzeesche Kali Export Maatschappij, and one-half interest in $2,000,000 in promissory notes issued by the York Commercial Corporation, New York.


**For Domestic and Export**
**COTTONSEED MEAL AND CAKE**
**PEANUT MEAL-SOYABEAN MEAL**

*Export Codes:* ABC 5th, BENTLEY'S JUNIOR PEERLESS

*Cable Address:* BRODE
*Phones:* L. D. 271 – L. D. 547
*Teletype No.* ME-260

**THE BRODE CORPORATION**
P. O. Box 700 1012 Falls Building
MEMPHIS, TENNESSEE



**ARISTA OIL PRODUCTS**

*exclusive representatives in the U.S. for*

**BRØDR AARSAETHER A/S**
Norway's
**LARGEST ACTUAL PRODUCER OF COD LIVER OIL**
*has*
Medicinal Cod Liver Oil
**ALL POTENCIES—**

*for immediate delivery*

from Warehouse Stocks in New York or by direct steamer from Norway.

**ARISTA OIL PRODUCTS CO.**
135 FRONT STREET, NEW YORK 5, N. Y.



**You make a BETTER VARNISH at LOWER COST**

**with PVO CHINAWOOD OIL ARGENTINE WOOD OIL DOMESTIC TUNG OIL**

Study carefully the economies of wood oil formulas

Many so-called economical substitutes prove much more expensive when factors of quality, time and trouble are considered.

Check carefully uniformity and quality of PVO oils against all others

Long experience in importing large quantities of wood oil has enabled PVO to select reliable sources and to maintain uniform quality.

**Check PVO WOOD OILS against all other oils**

**Wood Oil** makes the fastest drying varnishes
**Wood Oil** makes the most waterproof oils and varnishes
**Wood Oil** is the fastest cooking oil
**Wood Oil** can be used with cheaper resins, with excellent results
**Wood Oil** makes double-cooking unnecessary
**Wood Oil** blends perfectly with all other oils

62 TOWNSEND STREET **PVO PAINT & VARNISH OILS PACIFIC VEGETABLE OIL CORP.** SAN FRANCISCO 7, CALIF.

**IMPORTERS, REFINERS, PROCESSORS**...Chinawood Oil, Linseed Oil, Sardine Oil, Soybean Oil, Oiticica Oil, Castor Oil.

For information on formulations for PVO Chinawood Oil, or data on current market conditions, write Dept. L.
6 million gal. U. S. Gov't Bonded Tank Storage.

**SALES REPRESENTATIVES**

BALTIMORE—W. R. McCleeren Co.
BOSTON—Raw Materials Co.
CHICAGO—Daniel G. Hershey & Co.
CINCINNATI—Deeks, Sprinkel & Miller, Inc.
CLEVELAND—The Donald McKay Smith Co.
DALLAS—W. W. Richerson Co.
DETROIT—Geo. B. Heser & Sons, Ltd.
HOUSTON—S. S. McCullough Co.
LOS ANGELES—California Flaxseed Products Co.
LOUISVILLE—B. H. Boyd & Co.
—Deeks, Sprinkel & Miller, Inc.
MINNEAPOLIS—Morton-Bart Co.
MONTREAL—G. & E. H. Thompson & Co., Reg.
NEW ORLEANS—Russell Chemical Co.
NEW YORK—Garrigues, Stewart & Davies, Inc.
PHILADELPHIA—Baker and Gaffney
PITTSBURGH—Bennett D. Griffin, Jr.
PORTLAND, ORE.—Western Chemicals, Inc.
SEATTLE—Van Waters & Rogers, Inc.



*Better Chemicals for the Process Industries* SINCE 1815

***Plants:* Charlotte, N. C., Cincinnati, Ohio, Dighton, Mass.**

| Product | Use | Description |
|---|---|---|
| RED OILS | Soaps, Lubricants, Softeners. Cutting, Flotation & Quenching Oils. Pigment dispersion. Textile Oils. | Single or double pressed. 98% saponifiable matter guaranteed. *Low titre.* |
| AHCOLEIN 810 | Wherever highest quality red oil is required. Soaps, creams, emulsions, textiles, etc. | Distilled red oil. Almost colorless. F.F.A. 98-100%. Meets or exceeds U.S.P. specifications. |
| FATTY ACID ESTERS | Plasticizers and lubricants. | Low volatility and acidity; mild odor; improved heat stability. |
| TRIPLE PRESSED STEARIC ACID | Ester manufacturing, Emulsifying agent for Greases, Rubber, Paints, Pharmaceuticals, etc. | Saponified; in spray or slab form. Low iodine value. |
| METALLIC STEARATES | Petroleum Greases, Inks, Paints, Varnish, Lacquers, Rubber, Plastics, etc. | Aluminum, Zinc, Calcium, Magnesium and Barium. |
| GLYCERINE | Textiles, Rubber, Glues, Paper, etc. | 88% saponification crude. |

***For samples and research bulletins, contact your nearest AHCO office***

**ARNOLD-HOFFMAN**
PROVIDENCE, RHODE ISLAND
Arnold, Hoffman & Co. Incorporated • Est. 1815 • Providence, Rhode Island
*Offices:* Charlotte; Cincinnati; New York; Philadelphia; Providence

## "Consolidated" for EXCEPTIONAL SAVINGS

### MIXERS

1—#1 BANBURY MIXER, Chrome Plated Rotors, Drive, 40 H.P. Motor.

1—BAKER PERKINS 100 gal. Stainless Steel VACUUM MIXER.

10—BAKER PERKINS MIXERS, Jacketed and Unjacketed, 5 gal., 9 gal., 20, 50, 100, 150, 200 gallon.

1—J. H. Day Steam Jacketed ALUMINUM Horiz. 1000# Dry Powder MIXER.

1—1500# Horizontal Dry Powder MIXER, end discharge, M.D., 10 HP AC Motor.

2—Wolf Horizontal 2500#, 8'2" x 36" x 42", center discharge, Dry Powder MIXER.

1—Day 1600#, size F, horizontal, end discharge, Dry Powder MIXER.

1—MUNSON ROTARY Type 2, 60" dia. drum, conical ends, M.D., V-belt to 5 HP AC Motor.

1—DAY Size D, 600#, SIFTER and MIXER, end discharge, M.D., 3 HP AC Motor.

1—BROUGHTON MIXER, 1500#, style A2, 15 HP AC Motor; 1—BROUGHTON MIXER, 700#, Style B2, belt drive.

1—40" BIRD Suspended Type CENTRIFUGAL, Steel Basket Bottom Discharge, with A-Frame, Vertical 1200 RPM 20/5 HP Louis Allis 3/60 440-220 Motor and ROWAN Control.

### FILTERS

4—SWEETLAND Filters — No. 12 with 36 steel, bronze or Monel leaves; also #5.
15—Presses, cast iron, 12" x 12" up to 42" x 42", open and closed delivery.
4—RUBBER covered presses, 24" x 24" and 36" x 36".
1—ALUMINUM Sperry, 30" x 30", Plate and Frame, 45 chambers.
2—3' x 1' and 6' x 4' Oliver, top feed.
1—8' x 15' OLIVER PRECOAT Vac. continuous Filter.
1—8' x 12' Oliver Acidproof—lead fitted.
3—8' x 10' Oliver steel, wood staves.
2—8' x 4' Dorrco Continuous Vacuum Filters.
2—6'6" x 6' Feinc, string discharge, pumps, etc.
2—8' x 12' Oliver, all steel.
2—11'6" x 18' Oliver, all steel.

1—36" CAST IRON RECTIFYING COLUMN, with bubble-cap plates.
1—COPPER CONTINUOUS DISTILLATION UNIT, includes 1—24" column 25' high and 1—30" column 33' high, complete.
1—20' COPPER COLUMN, 15' high with copper still pot, copper tube condensers.

### DRYERS

3—Rotary Vacuum Dryers: 5' x 33' and 5' x 25' Devine; 4 x 20' #59-C Stokes; 3 x 15' #59-B Stokes; each complete with auxiliary equipment.
4—Vacuum Shelf Dryers: Devine 10—40" x 43" shelves; Devine, 17—40 x 43" shelves; Devine, 18—59" x 78" shelves.
1—Double Shell Rotary Dryer, outer shell 10' x 42' long, inner shell 5'6" x 57' long, all lined, with auxiliaries.
1—Buffalo Vacuum Drum Dryer, double rolls, each 42" dia. x 120", complete. Also 5' x 10'6" Devine with single bronze drum.
9—Double Drum Atmospheric Dryers: 28 x 60", 36 x 81" Black & Clawson; 32 x 72", 32 x 90", 32 x 100", 42 x 90", 42 x 100" Buffalo.
8—Single Drum Atmospheric Dryers: Two UNUSED 48" x 48" Goslin-Birmingham; 48 x 40, 5 x 12' Buffalo; 4 x 5' chrome clad; 4 x 9' Albright-Nell.
1—4' x 5' Eimco Vac. Filter, all steel.
1—6' x 4' Flaker, chrome-plated, m.d.
2—6' x 27' Davenport Rotary Steam Tube Dryers, vari-speed reducer and motor.
12—Rotary Dryers: 3'6" x 24' Aluminum; 4' x 30' Monel; 5'4"x40' Stainless Steel; 2' x 15', 5' x 24', 5' x 30', 5' x 50', 6' x 60', 8' x 60', 9' x 85', 11'6" x 120'. Also ROTARY KILNS up to 9'6" x 250'.

ONLY A PARTIAL LISTING

THE KEY TO SAVING TIME AND MONEY

CONSOLIDATED PRODUCTS COMPANY, INC.

13-18 PARK ROW NEW YORK 7, N. Y.

Phone: BArclay 7-0600

## ●WE WANT TO BUY YOUR IDLE EQUIPMENT

## EQUIPMENT for CHEMICAL AND ALLIED INDUSTRIES

3—Louisville Rotary Steam Tube Dryers, 6'x50'.

1—Shriver 42" x 42" Cast Iron Filter Press, closed delivery, 4 eyed, washing type, 36 chambers.
1—EEMCO 2-Roll Laboratory Mill, 6" x 12".
2—Sperry 18" x 18" closed delivery, 4 eyed, washing type Filter Press, Tin Plated, 20 chambers.
1—Sperry 36" x 36" Filter Press, 42 Heresite covered plates.
1—Patterson Kelly 150 gals. Jacketed Kettle, constructed 15.16% chrome steel.
1—Bird Continuous Solid-Bowl Centrifugal Filter, 24" x 38" with 25 HP Explosion-Proof Motor.
1—Shriver Filter Press, 42" x 42", 46 chambers, side feed, open delivery, washing type with hydraulic closing device.
1—Shriver Jacketed Plate & Frame, Filter Press 36" x 36", 48 chambers.
1—Buflovak Chrome - Plated Double Drum Dryer, 32" x 90".

2—Proctor & Schwartz, Stainless Steel Flakers, 6' dia. x 5' face.

3—J. P. Devine Single Door Vacuum Shelf Dryers, 6 shelves.
1—Stainless Steel Jacketed Kettle, 500 gals. cap.
1—Pfaudler Aluminum Jacketed Reactor, 250 gals. cap.
1—Buffalo Jacketed Steel Vacuum Reactor, 1,500 gals. cap., with agitator.
1—Shriver Rubber-Lined Filter Press, 36" x 36", 36 chambers, closed delivery, 4 eyed, corner feed, with 5 ton SECO closing device.
1—Baker Perkins Laboratory Mixer, Size #6.
2—J. H. Day Mogul type Mixers, 2½ & 5 gals. cap.
10—Sweetland Filters, #12, #10, #7, #2, #1 & Laboratory Size.
3—Vallez Filters, #2E, #2B & #3.
1—Struthers-Wells Stainless Steel Condenser, 570 sq. ft.
1—Mikro Pulverizer #2TH with 15 HP motor.

R. GELB & SONS, INC.

UNION, N. J. Est. 1886 Unionville 2-4900

## LIQUIDATION

### WESTERN SUGAR REFINERY, San Francisco, Calif.

REFINING — PACKAGING — CONVEYING — POWER EQUIPMENT

2—Triple effect evaporators 13,000, 5400 sq. ft.
2—8' dia. copper vacuum pans, 1780 sq. ft. each.
2—11' calandria pans, 1300 sq. ft. each.
2—12', 14' dia. copper vacuum pans, 690 & 1290 sq. ft.
16—Crystallizers, 8' x 18', 6'6" x 30'.
8—Hersey Driers, 6' x 26', 6' x 24'.
54—40" centrifugals, batteries of 4 & 6.
10—54" centrifugals.
16—#12 Sweetland Filters.
7—Tyler Hummer Screens, 3' x 5'.
5—Schutz-O'Neil #3 Sugar Pulverizers.
1—Stedman Sugar Pulverizer.
2—St. Regis #5 & 10 lb. convertible paper pocket Filling, Folding, Sewing Units.
3—Pneumatic Scale Packaging Lines for 1, 2 or 5 lb. cartons.
6—Hoepner Duplex Scales, 100 lb.
2—Hoepner 5, 10 & 25 lb. Pocket, Baling and Sewing Machines.
50—Belt, Bucket and Slat Conveyors.
30—Ribbon or Screw Conveyors, 12" to 30".
62—Centrifugal Pumps, 1" to 22".

PARTIAL LIST ONLY, SEND FOR CATALOG

## "BUY BRILL"—Buy the Best

1—6' x 50' Rotary Dryer, 1/16" monel lining.
4—Ross Eng. 2-truck Atmospheric Steam-Heated Dryers, 500 sq. ft. each.
3—6' x 40' Stainless Steel Rotary Dryers.
3—Bird Continuous Centrifuges, 18" x 28", stainless, 36" x 50", rubber-covered.
1—Tolhurst 26" Suspended Centrifugals, steel perforated basket.
1—AT&M 48" Suspended Centrifugal, stainless steel solid basket.
3—Atmospheric Double Drum Dryers, 32" x 52", 32" x 72", 36" x 84", 32" x 100", 42" x 120".
6—Sweetland Filters, #12, 9, 2..
2—Sweetland Filters, #2 solid stainless.
5—Oliver Rotary Vac. Filters, 11'6" x 18', 8' x 12', 8' x 8', 6' x 6', 3' x 4', 3' x 2'.
1—Swenson 4' x 3' Rotary Vac. Filter.
2—Rotary Vacuum Dryers, 30" x 8', 3' x 15'.
9—Patterson, Abbe Pebble Mills, 6' x 8', 5' x 6', 4' x 5', 3' x 4', 3' x 3'6", 2' x 3'.
3—Mikro Pulverizers, #4TH, 2DH, 1SH.
7—Rotex Sifters, 40" x 56", 40" x 84", 40" x 120".
3—Tyler Hummer Screens, 4' x 5', 3' x 5'.
4—Baker Perkins steam jacketed Double Arm Mixers, 100, 20, 9, 2 gal.
3—Baker Perkins 100 gal. Type VNMM Dispersion Mixers, 200 HP motors.
1—Sperry all aluminum 30" x 30" P&F Type 57 Filter Press having 23 chambers making 2" cake.
8—Shriver, Sperry Filter Presses, 12" to 42".
3—Stainless Steel Tanks, 500, 750, 3300 gal.
1—Stokes Vacuum Shelf Dryer having 16—40" x 42" shelves.
25—Powder Mixers, 100 to 5000#.
20—Stainless Steel Kettles, 20 to 500 gal.
21—Pfaudler glass-lined Tanks, 8000 gal.
4—Nash Hytor Pumps, #L5, 3, 2, H7.
70—Centrifugal Pumps, 1" to 10".

COMPLETE LISTINGS, QUOTATIONS ON REQUEST

BRILL EQUIPMENT COMPANY

2401 3rd Avenue New York 51, N. Y.

**IMMEDIATE**

**QUOTATIONS, DESCRIPTIONS ON OUTSTANDING AVAILABLE EQUIPMENT - - - - - - CALL US**

1—Dryer, Louisville 4'6" x 25', tubular, rotary.
2—Kilns, Ruggles Coles, 6' x 14', rotary.
4—Filter Presses, Sperry & Shriver, 24" & 30", cast iron, washing type.
4—Filter Presses, 36", open delivery (one jkfd), cast iron.
5—Filter Press Skeletons, Shriver, 36".
1—Pebble Mill, 6' x 4' Paterson.
1—Tube Mill, Hardinge 4' x 14'6".
1—Still, 350 gal, Nickel, 18" aluminum column by 15' with aluminum tube condenser.
4—Reactors, s/s 100 gallons, type 347, agitated.

A SAMPLE OF OUR OUTSTANDING EQUIPMENT

**CHEMICAL & PROCESS**
MACHINERY CORPORATION
146 GRAND ST. • NEW YORK 13
WOrth 4-8130



*"YOUR MACHINE IS AS GOOD AS THE WORD OF THE SELLER"*

**SPECIALS**

1—Tolhurst S.S. 48" Sus. Style Centrifuge, Perforated Basket—DMD.
1—ATM. Co. S.S. 26" Sus. Style Solid Basket Centrifuge, DMD.
3—Stainless Steel Tube Condensers 55 & 65 Sq. Ft. Surface.
3—W. & P. 100 Gal. Stainless Steel Mixers, Double Arm, Motor Drive.
1—Baker Perkins Jack. Mixer 750 gals.
4—Horizontal Dry Powder Mixers 100 to 2000lb capacity.
7—Stainless Steel Tanks, 100-500-2500 & 6000 gals.
2—Spencer Turbine Type 347 Stainless Steel Boosters or Compressors—600 C.F.M., 30 H. P. Motors.
2—Stokes Tablet Presses "T" & "R".
2—Stainless Steel Double Deck Sifters—2' x 7'.
1—Rotary Dryer 10' x 98'—Complete.

SEND FOR BULLETIN A-26

We Buy Single Items to Complete Plants

**The Machinery and Equipment Corp.**
533 WEST BROADWAY
New York 12, N. Y. GRamercy 5-6680



**Reliable FMC EQUIPMENT**

For Complete ILLUSTRATED BULLETIN of Latest Offerings Turn to Pages 28A and 28B

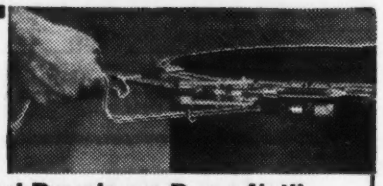
FOR GOOD USED EQUIPMENT DEPEND UPON THIS NAME

CHECK the LARGEST STOCK in the EAST — FMC HAS IT

**FIRST MACHINERY CORP.**
157 HUDSON ST. WOrth 4-5900 NEW YORK 13, N. Y.



**For SAFE CLOSURES of Full Removable Head Drums Use DRUM PARTS SYSTEM** — **Closing Tool Remains on Drum Until Bolt is Tight!**



DRUM PARTS SYSTEM was designed to make it easy to insert the bolt in the lugs on the ring and to tighten the bolt after it has been inserted.

Note in the illustration that the wrench which is a self-contained part of the "SPIN-SEAL" Closing Tool is instantly ready to tighten the bolt, after it has been quickly inserted in the lugs.

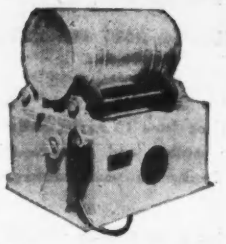
DRUM PARTS SYSTEM makes it easier and quicker to do the job the right way—to tighten the bolt while the ring is held firmly in the proper position—not after the tension has been released.

Closures made by the DRUM PARTS SYSTEM are secure every time—and they're made in less time, too.

LITERATURE, SPECIFICATIONS AND QUOTATIONS SENT ON REQUEST

**DRUM PARTS, INC.**
10311 MEECH AVE. CLEVELAND, OHIO





**DRUM ROLLER**

**JUST WHAT YOU HAVE WAITED FOR**

**Adjustable from 2 to 60 gal. drums.**

Equipped with 1/2 H.P. single phase motor with Reeves Drive to regulate speed, push button starter, cord & plug. Immediate Delivery.

**H. LOEB & SON** :-: 4643 LANCASTER AVE. PHILADELPHIA 31, PA.



4—Selectro Vibrating Screens, 2' x 7', enclosed, stainless steel, two deck.
3—Louisville Rotary Steam Tube Dryers, 6' x 30' L.
1—Aluminum 1,000 gal. Reaction Kettle, jacketed, agitated, coils.
3—Nickel Lined Tanks, 300 gal.
2—Stainless Tanks, T304 6,000 gal., Horiz.
3—Stainless Kettles, T347, 1,000 gal., flat top, agitated, non-jacketed.
20—Pfaudler Horiz. Glass Lined Tanks, 7,500 gal. & 8,250 gal.
50—Stainless Clad Jacketed Kettles, 30 gal, 40 gal., 60 gal., 80 gal., 100 gal., 150 gal.
3—Filter Presses Wood P&F, 30".
8—Filter Presses, C.I. P&F, 10" to 24".
1—Rotary Vacuum Filter, 8' x 8', acid proof.
1—Sweetland #10 Filter, Monel leaves.
1—Deep Well Pump, 150 GPM, 325', 20 HP motor, in original crates.
6—Ingersoll Rand bronze centrifugal pumps, #1½-CRVN, #1½-CRVNL; new.
1—Kinney High Vacuum Pump, size DVD-14918.
2—Worthington Vacuum Pumps, 6½ x 6.
1—Stokes Vacuum Rotary Drier, No. 59A with pump & condenser.
3—B&J Rotary Cutters, #1, #2, #2½.
2—Sharples 16 V Centrifuge, stainless.
2—Abbe Eng. Pebble Mills, size 1-B, 6' dia. x 8' long, buhrstone lined.
1—Robinson 5,000 lb. Powder Mixer.
1—Swenson Jacketed Crystallizer, 30'L x 24"W x 26" deep.

**PERRY EQUIPMENT CORP.**
1507 W. THOMPSON STREET • PHILA. 21, PA.



**OFFERINGS FROM STOCK**

New Pfaudler 65 gal. Glass-Lined Kettles.
Mikro #1 SH Pulverizers 3 HP Other sizes.
6—Anderson Oil Expellers, #1 & Duo.
6—French Oil Expellers 40 HP XPF M.D.
1—#00 Raymond Mill 30 HP complete.
4—French Oil 400-Ton Linseed Presses.
1—Dopp 1,000 gal. Jack Agit Kettle.
1—#7 Sweetland Filter bottom drainage
1—Lehman 4 Roll W C. 12"x36" Steel Mill.
1—Hardinge Conical Ball Mill. 4½'x24"
4—Allbright-Nell 4'x9' Atmos. Drum Dryers & Flakers.
1—Devine No. 3 Vac. 4 Shelf Dryer.
1—Badger 42" dia. Monel column.
1—Buffalo Vac. Drum Dryer, 24"x20".
1—Century 2 HP, 4 speed Vert. Mixer.
3—Baker Perkins heavy duty Jack Mixers 200, 100, 50, 9 gals & 0.7 gals.
Stokes #2E Paste Filler, fills to 5 gals.
Impreg. Units, Lab. or Pilot Plant & up.
2—Abbe Pebble Mills, 6'x8' & 60"x48".
8—Abbe Jar Mills, Lab. to 6 gal. sizes.
2—Master drum type Blenders, 1,000#.
15—Sperry & Shriver, 12", 18" 24". 30" 32". 42" Iron & Wood Filter Presses.
2—12" Bronze & Rubber Filter Presses.
Extra 36" Iron Sperry Plates & Frames.
1—Allis-Chalmers 1 HP Gyratory Sifter.
3—Tyler 38 Jr. Hummer Screens, 20"x60"
2—Robinson No. 10 Saw Tooth Crushers.
6—Tolhurst 40" Suspended Type Centrifugals, Bottom Discharge.
5—Lehman & Kent 3-Roll Steel Mills. 3"x9", 6"x22", 9"x32", 12"x30", 16"x40".
1—9"x24", 3 pair high, Steel Roller Mill, corrugated.
4—Stokes & Colton Rotary & Single Punch Tablet Machines, ½" to 3".
1—Robinson 22" Ball Bearing Attrition Mill, double pulleys.
11—Sharples No. 5A Stainless Oil Centrifuges, 2 HP Also No. 6.
5—Colloid Mills 1 to 50 HP.
6—Rotex Sifters 20" x 36" to 40" x 84".
2—DeLaval Multi. Clarifiers, #300 & 301.
Devine 500, 300 & 1,000 gal. closed steel Kettles & Stills, 250 gal. lead lined kettle.
10—Dry Powder Mixers, 50 to 2,500 lbs.
6—Pony Mixers, 2½ to 40 gals.
3—Stokes & Day Powder Fillers.
10—Stokes Vertical High Vac. Pumps.
1—Sturtevant 36" Rock Emery Mill.
Filling Machines, liquid, paste & powder.
20—Stainless, Alum., Copper & Glass Lined Kettles & Tanks, new & used.
1—Revolvator hand operated 1,000#.
15—Portable Elec. Mixers, ¼ to 2 HP.
Rotary Cutters Lab. to 40 HP.
8—Hammer Mills & Pulver., 3 to 50 HP.
6—Centrifugals, 26", 30" & 40".
4—#00 & #0000 Raymond Mills.
6—Lead & Paste Mixers to 300 gals.
2—Worth 12"x12"x12" Vac. Pumps.
Soap Machinery for Toilet, Laundry, etc.

*WRITE FOR BULLETIN. WE BUY YOUR SURPLUS MACHINERY*

**STEIN EQUIP'T CO.**
90 WEST STREET, NEW YORK 6, N. Y



**AUTOCLAVE**

**42" DIA x 24' VERTICAL WELDED**

***Inspected and Approved For 400 lb. Pressure***

EMSCO EQUIPMENT CO.
AFFILIATE OF EMIL A. SCHROTH
73 Hyatt Ave., Newark 5, N. J.
Phone: Mitchell 2-3536



***WE WILL BUY YOUR***

**Surplus Chemicals**

***SOLVENTS WAXES OILS RESINS DRUGS ETC.***

**WIRE OR PHONE FOR IMMEDIATE ACTION!**

**All offers held in strictest confidence.**

**Barclay CHEMICAL COMPANY, INC.**
77 VARICK STREET NEW YORK 13, N. Y. • WO 4-5120

# Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE (Not Subject to Agency Commission)

ALL CLASSIFIED ADVERTISEMENTS—$5.00, thirty-six words or less; 85c. for each additional six words or fraction.

NO DISPLAY—First two words printed in bold face type.

COPY DEADLINE—Wednesday Noon Preceding Date of Publication

## BUSINESS OPPORTUNITIES

**Do you** have a process or a product to sell? Or have you a moderate-size plant which needs capital or which you wish to sell? OPD 570.

## EQUIPMENT OFFERED

**3—New** Vallez #37 Rotating Leaf Pressure Filters with cast iron bodies, each with 15 leaves dressed with 17 ounce cotton twill cloth affording a total area of 112 square feet. Steel scroll and cake indicators. No dealers. OPD 575.

**Westinghouse motor**—new, 5 HP, 220/440 volts, 60 cycles, 3 phase, Amps, per term 13.8/6.9, RPM 1750, with fan, drip proof, splash proof, lubricated bearings. Price $180. OPD 579.

**Varnish kettles** for sale. Four 270-gallon tapered steel kettles. Two 185-gallon copper kettles. All have 4 wheel trucks. $120 each your pick-up Lower price for lot. Cleveland, Ohio. OPD 569.

**Stokes High** Vacuum pumps—212C, water cooled, 100 cfm; V-drive; used 3 months; satisfaction guaranteed. $349 Some unused available, $425; inspect. American Sales Co., 67 E 8th St., New York, N Y GRamercy 3-1465.

## EQUIPMENT WANTED

**Sparkler Filter** 33 inch. Reply OPD 563.

**One Shriver** filter press rubber covered 42" backwashing type 1⅛" plates preferred. OPD 580.

## FACILITIES OFFERED

**Custom grinding** to micron sizes—Pharmaceuticals, food products, abrasives, chemicals, minerals, waxes, and resins. Avoid capital expenditures and royalties while developing new products sales. Use our experienced technical staff —micronizinz equipment—mixing, packaging and shipping facilities. OPD 488.

**Responsible manufacturer** with facilities and "know how" for sulfonating vegetable and animal oils seeks additional outlets. Will consider all proposals. OPD 571.

## FACILITIES WANTED

**Spray Drying** or drum drying capacity approximately 100,000 pounds weekly. Prefer facilities located metropolitan New York area. OPD 584.

## MANUFACTURING FACILITIES

**Pharmaceutical Manufacturing laboratory:** bulk suppliers of all type pharmaceutical preparations, liquids, tablets, vitamin specialties. We have 30 years of pharmaceutical manufacturing "Know How." Reg. Ph. in charge. Write or phone for information and quotations. U. N. Laboratories, 24 Horatio Street, New York 14. N. Y. Phone ORegon 5-3569.

## MATERIALS OFFERED

**Reliable Hong** Kong firm offers for immediate shipment 300 tons bulk China wood oil of first quality. Price 23¾ cents per pound C&F San Francisco or 24¼ cents per pound C&F New York. Reply to T. B. Williams, 428 Scarritt Building, Kansas City 6, Mo.

**Paint manufacturer** desires to trade Zinc Oxide for Lithopone or Carbon Tetrachloride. Must be confidential. OPD 577.

## MATERIALS WANTED

**Paint Manufacturer** urgently requires Pure and Reduced Titanium to stay in business. Will pay reasonable premium in strict confidence. Not interested in black market deals from speculators OPD 566.

**Titanium Dioxide** Pigments (any grade) needed to carry on our business. Not interest in any 85c or 95c Black Market deals. Would appreciate a few bags from manufacturing concerns who can possibly spare some. Will pay an reasonable premium or exchange for other critical chemicals. Samuel Smidt Chemical Co., 410 Frelinghuysen Ave., Newark 5, N. J.

**To Manufacturers** and jobbers: Are you overstocked? We require immediately large or small lots many items chemicals, pharmaceuticals, solvents, aromatics, waxes, other supplies. Submit offerings at once. Correspondence treated confidentially. OPD 585.

## PLANTS WANTED

**Chemical plant** wanted to buy or rent near N.Y. Preferably going business of fine organics. Will make participation arrangement if necessary. Aries Associates, 400 Madison Ave., N.Y.C. EL 5-1432.

**Wanted—Complete** plants; also machinery. Large engineering firm wishes to acquire several complete plants through purchase of (1) capital stock; (2) assets; (3) machinery and equipment, whole, or in part Personnel retained where possible Strictest confidence. Box 694, 1474 Broadway New York 18, N. Y.

## POSITIONS OFFERED

**Color matcher** experienced. Knowledge blending earth colors. Middle Atlantic location. Excellent salary. Opportunity to head department if experience warrants. OPD 482.

## POSITIONS OFFERED

**Laboratory foreman** wanted. Production control laboratory. Large dry color plant. Knowledge physical and chemical examination diverse inorganic pigment line. Middle Atlantic location. OPD 483.

## POSITIONS WANTED

**Lacquer and** other protective coatings chemist, with many years experience in laboratory and plant, desires connection in Metropolitan District. Capable taking full charge. Has some good sales contacts. Presently employed. OPD 574.

**Chemical engineer,** 24, married, veteran, draft deferred, honor graduate, three years experience industrial finishes. Knowledge color matching, raw materials purchasing, production control, supervision of plant personnel Presently employed, desires responsible position New York area. OPD 576.

**Production—Chemist:** 13 years' experience fine chemicals; knowledge equipment, control, scheduling; inventory; handle labor; trouble shooting, safety. Responsible, capable man. OPD 578.

## SERVICES OFFERED

**Waste solvents** converted into dollars. Save solvent and money. We buy or expertly reclaim for you wash thinner, acetone, MEK, lacquer thinner, chlorinated solvents Queen Chemical Co., 93 Georgia Ave., Brooklyn, N. Y., HYacinth 8-8120.

---

**FOR SALE**
**TANK CAR TANKS**
**For Storage**

10—6,500-Gallon, *Non-Coiled, Extra Heavy Plate Above Tanks Suitable for Acid Storage

Coiled and Non-Coiled
Cleaned — Painted — Tested

7— 8,000-Gal.* 20—10,000-Gal.*
1— 4,500-Gal.***
*—1 ***—3 Compartment Tanks

*Some of the above tanks are located in Kansas and Texas*

**IRON & STEEL PRODUCTS, INC.**
13454 S. Brainard Avenue
Chicago 33, Illinois
"ANYTHING containing IRON or STEEL"

---

**DRUMS**

• Full removable head containers.

Where added strength and security are needed use our "Bolted Ring Seal" drum supplied in sizes from 10 to 70 gallons. Suitable for solids and semi-liquids. Consult us freely on your packaging problems.

a complete line of light gauge containers

**EASTERN STEEL BARREL CORPORATION**
Bound Brook New Jersey

---

**WE BUY**
**SURPLUS**
Chemicals • Colors
Pigments • Starches • Solvents
Waxes • Glues • Drugs
Oils • Gums • Dyes
By-Products, Wastes of all kinds
**EASTERN COLOR & CHEMICAL CO.**
145-147 Nassau St. New York 7, N. Y.
Cortlandt 7-7441, Ext. "A"

---

Baker Perkins Mixers, size 15, type VIH, class BS, 150 gal. cap., tested 50 psi, pulley dr., recond.
Day 11' Split Ribbon Mixer, 2 section, 3000# cap.
Day 23' Split Ribbon Mixer, 4 section, 6000# cap.
Day Roller Mills, 12x30, high speed.
Simpson Intensive Mixer.
Banner Mixers.
Soap Crutchers, Presses—foot and auto., Wrappers, Frames, etc.
Glycerine Evaporator.
Highest class reconditioning—done in our own shops. We also purchase entire plants or single items.

**NEWMAN TALLOW & SOAP MACHINERY CO.**
1051-1055 W. 35th St. Chicago 9, Ill.

---

**BOUGHT — SOLD**
CHLORINATED SOLVENTS, CADMIUM & NICKEL CHEMICALS, TITANIUMS, LITHOPONE, PHENOL, SODA (Ash, Caustic, Nitrite, Bicarbonate, Bichromate), PHOSPHATES, PHTHALIC ANHYDRIDE, PENTAERYTHRITOL, SACCHARIN, VANILLIN

*Chemical Service Corporation*
88 BEAVER STREET, NEW YORK 5, N. Y.
HANOVER 2-6970

---

**FOR SALE**

3—9" x 24" motor driven roller mills.
1—16 x 40 roller mill.
3—12 x 30 roller mills.
PONY MIXERS from 2½ gallons to 40 gallons.
2—4'6" x 5' burr stone-lined pebble mills.
1—Paterson 6' x 5' watercooled steel ball mill.
10—New portable tanks on wheels, size 36 x 36, for change can mixers.
10—8" Premier Colloid Mills.

*Specializing in Rebuilt Machinery*

**IRVING BARCAN COMPANY**
249 Orient Ave., Jersey City 5, N. J.
DElaware 2-6695

---

**FOR SALE**

Ross—6000# Fork Lift, Gasoline, 19T.
750 Gal. W&P Mixer, Steel Jacketed, Sigma Blades, unused.
Kettle, 5'x8', jack./ag.
Smelting Furnace, U. S. No. 2.
Glasslined agit. kettle, 800 gal.
Pebble Mills, 30x23, 54x42, 72x60.
Air Compressor—Ing Rand 93 cfm w/m.
4'x6' Lead Lined Bucket Elevators.
Ball Mill—Hardinge 4½'x16", 6'x48".
Crushers, Roll, 12"x12", 16"x10", 54x20.
Rotary Dryers, 3½x30, 4'x60', 6'8"x40'.
Crushers—Jaw: 7"x9", 5"x12", 12"x26", 54"x36" Link Belt Drum Type Mixer.
Tolhurst Centrifuges, 26", 40", 48".
Blowers, Exhausters, Pumps.
Blowers, Exhausters, many sizes.

**LAWLER COMPANY**
Durham Ave. & Lawler Pl., Metuchen, N. J.

---

**GOOD USED EQUIPMENT**
**At Less Than You Expect to Pay**

2 Struthers Wells S. S. 5' x 10' single drum Dryers, with 7½ HP motors.
Patterson 1200 gal. Nickel Sprayed Reactor Jktd. & Agtd., 6' x 6', ASME code.
2 Shriver Filter Presses, Iron, 12", having 32 chambers & 24" with 13 chambers.
Sweetland Filters #7 and #12.
Patterson Ball Mill, 3½' x 4', Jktd., Chrome Manganese Steel Lined, 10 HP motor.
Ross 12 x 30 Hy-Speed 3 Roll Mill, water cooled, 20 HP motor, late model.
Bird 40" Suspended Centrifuge, Plow & Bottom Dump, with motor.
New Pfaudler Glass Lined Soxhlet Unit, perfect condition, contains 420 pieces.
2 Farrel Birmingham 24" x 66" 3 Roll Calenders, with 100 HP 3 ph. motor.

WHAT HAVE YOU FOR SALE?
For Better Buys and Service
Phone SOuth 8-4451—9264—8782
You Can BANK on the . . .

**EQUIPMENT CLEARING HOUSE, INC.**
289-10th ST., BKLYN 15, N. Y.

---

**WE BUY**
**SURPLUS CHEMICALS**
PLASTICIZERS — RESINS — OILS — WAXES — ETC.
**MANUFACTURERS PRODUCTS CO.**
521 FIFTH AVE., NEW YORK 17 MUrray Hill 7-5697

---

**WANTED**

If you have had many years experience in the DRUG & CHEMICAL field—you are the man we are looking for.

Your experience must have earned for you an intimate contact with domestic producers together with a thorough knowledge of the export markets. We have an excellent opportunity for such a man.

Don't waste your time if you do not fully qualify.

**Box 574 Oil, Paint and Drug Reporter**

---

## Truman Seeks Confirmation Of Five New RFC Members

Names of the five members of the board of directors of the Reconstruction Finance Corporation were submitted to the senate for confirmation November 28 by President Truman. The appointments had been made by the President during the recess of congress. The members are:—

Walter E. Cosgriff of Utah and W. Elmer Harber of Oklahoma, appointed for two years from July 1, 1950; C. Edward Rowe, appointed for one year from July 1, 1950; William E. Willett of Maryland, appointed for the term expiring June 30, 1953; and Walter Lee Dunham of Michigan, appointed for the term expiring June 30, 1951.

---

**Sales Administrator**

We know a man . . . 36 . . . who is capable of handling a sales or sales management position on a broad industrial, agricultural and small package scale, where there are tough problems to be overcome in competition, present economic conditions, market or product development and *government liaison.*

He has had a wealth of experience in sales and in sales administration for top names in the chemical and allied industries . . . for one of these companies he had set up initial agreements on bulk product sales amounting to $15 million.

He can sell, he can direct sales, he has vision and integrity. If you have a position open in sales or sales administration; if you have problems in bulk or small package markets, trends, raw material supplies, research, product development, sales promotion—You ought to TAKE A LOOK AT THIS MAN. We shall be glad to put him in touch with you.

THE HOUSE OF J. HAYDEN TWISS
*Advertising*
225 Park Ave., New York 17, N. Y.

## Advertising Index


Albek, Albert, Inc. 27
Albemarle Paper Mfg. Co. 53
Alkydol Laboratories, Inc. 72
Allied Asphalt & Mineral Corp. 72
American Firstoline Corp. 40, 84
American Flange & Mfg. Co., Inc. 31
American Key Products, Inc. 45
American Mineral Spirits Co. 51
American Potash & Chemical Corp. 62
Arista Oil Products Co. 79
Arnold-Hoffman & Co., Inc. 79
Atlas Powder Co. 57

Bakelite Division, Union Carbide & Carbon Corp. 72
Baker & Adamson Products, General Chemical Div., Allied Chemical & Dye Corp. 13
Baker, J. T., Chemical Co. 1
Barcan, Irving, Co. 82
Barclay Chemical Co. 45, 81
Barrett Division 46, 48
Bay Chemical Co., Inc. 42
Benzol Products Co. 57
Best Effect Chemical Co., Inc. 57
Bethlehem Steel Co. 50
Birch Products Corp. 47
Bower, Henry, Chemical Mfg. Co. 47
Bowman, Charles, & Co. 58
Brill Equipment Co. 80
Brode Corp., The 79
Bromund, E. A., Company 77
Burke, Edward S. 58
Bush, W. J., & Co., Inc. 67

Calif. Fruit Growers Exchange, Products Dept. 25
Carbide & Carbon Chemicals Div., Union Carbide & Carbon Corp. 58
Celanese Corp. of America, Chemical Div. 84
Chemical & Process Machinery Co. 81
Chemical Service Corp. 82
Chemical Solvents, C. P., Inc. 84
Chemische Fabrik Griesheim 50
Church & Dwight Co., Inc. 41
Colgate-Palmolive-Peet Co. 56
Colledge, E. W., General Sales Agent 76
Commercial Solvents Corp. 58
Concord Chemical Co. 35
Conray Products Co. 57, 63
Consolidated Chemical Industries, Inc. 83
Consolidated Products Co., Inc. 80
Cooper, T. G., & Company 76
Cortizas, M., & Company 66
Coupe, Robert A. 47
Crosby Forest Products Co. 78
Crossett Chemical Co. 60

Darling & Co. 78
Dawe's Vitamins, Inc. 63
Devold, Peder, Oil Co., Inc. 59
Dickerson Company 46
Dickinson, J. Q., & Co. 58
Diehl, Wm., & Co. 77
Distillation Products Industries, Eastman Organic Chemicals Dept. 61
Dodge & Olcott Co. 70
Dow Corning Corp. 76
Drew, E. F., & Co., Inc. 34
Drum Parts, Inc. 81
Duff Chemical Co., Inc. 47
Dunkel, Paul A., & Co., Inc. 66
Du Pont de Nemours, E. I., & Co., Inc. 1

Eastern Color & Chemical Co. 82
Eastern Steel Barrel Co. 82
Edwal Laboratories 60
Elbert & Co., Inc. 44
Emsco Equipment Co. 81
Equipment Clearing House, Inc. 82
Esso Standard Oil Company 28

Fairmount Chemical Co., Inc. 63
Fine Organics, Inc. 59
Firmenich & Co. 69
First Machinery Corp. 28A, 28B, 81
Florasynth Laboratories, Inc. 67
Freeport Sulphur Co. 47
Fritzsche Brothers, Inc. 67

Gane & Ingram, Inc. 63
Gane's Chemical Works 57
Gartenberg, H., & Co., Inc. 44
Gelb, R., & Sons, Inc. 80
General American Transportation Corp. 62
General Biochemicals, Inc. 78
General Magnesite & Magnesia Co. 54
Gillies & Loughlin 53
Givaudan-Delawanna, Inc. 69
Glycerine Producers Association 21
Gray, William S., & Co. 1
Greeff, R. W., & Co. 16, 54
Gross, A., & Co. 77

Hardesty, W. C., Co. 77
Hardesty Chemical Co., Inc. 75
Heckathorn & Co., Ltd. 47
Hexagon Laboratories, Inc. 56
Heyden Chemical Corp. 30
Hoffmann-La Roche, Inc. 55
Hopkins, J. L., & Co. 65
Houston Pipe Line Co. 52
Huisking, Chas. L., & Co., Inc. 59
Hutchinson, D. W., & Co., Inc. 67

Industrial Chemical Sales, Div. West Virginia Pulp & Paper Co. 58
Inland Alkaloid Company 54
Internatio-Rotterdam, Inc. 76
Iron & Steel Products Co. 82

Jefferson Chemical Co. 17

Kelco Company 65
Kessler Chemical Co., Inc. 45
Koch, W. Walter, Co. 44
Kolker Chemical Works, Inc. 46
Koppers Company, Inc. 49
Koster, F. B., Wax Refining Co. 78

Lamex Chemical Corp. 59
Lawler Company 82
Lemke, B. L., & Co., Inc. 61
Lever Brothers Company 56
Loeb, H., & Son 81

Machinery & Equipment Corp. 81
Magnus, Mabee & Reynard, Inc. 67
Mallinckrodt Chemical Works 19, 74
Mantrose Corporation 74
Manufacturers Products Co. 82
Marine Magnesium Products Corp. 56
Mathieson Chemical Corporation 29
McKesson & Robbins, Inc. 55
Merchants Chemical Co. 12
Merck & Co., Inc. 8
Miel, George A., Co., Inc. 77
Millmaster Chemical Corp. 84
Monsanto Chemical Co. 23
Montrose Chemical Co. 16
Moore & Munger 53
Munn, W. A., & Co. 58
Mutual Chemical Co. of America 45

National Lead Co. 22
National Milk Sugar Co. 56
Natural Products Refining Co. 44
Neuberg, William D., Co. 54
Neville Company 84
New Jersey Zinc Company 75
Newman Tallow & Soap Machinery Co. 82
Norda Essential Oil & Chemical Co., Inc. 68

Ohio-Apex, Inc. 74
Oldbury Electro-Chemical Co. 41
Old Dutch Mustard Co. 66
Orbis Products Corp. 66
Ortho Chemical Corp. 59
Osborn, C. J., Co. 76

Pacific Coast Borax Co. 1
Pacific Vegetable Oil Corp. 79
Parsons, M. W. 72
Penick, S. B., & Co. 64
Pennsylvania Industrial Chem. Corp. 73
Pennsylvania Refining Company 51
Perry Equipment Corp. 81
Petrolite Corp., Ltd., Wax Division 53
Pfaltz & Bauer, Inc. 59
Pfizer, Chas., & Co., Inc. 39
Philipp Brothers Chemicals, Inc. 40
Pittsburgh Coke & Chemical Co. 50
Pittsburgh Plate Glass Co., Columbia Chemical Div. 41
Plax Corporation 70
Prentiss Drug & Chemical Co., Inc. 64
Prior Chemical Corp. 1
Procter & Gamble 56
Publicker Industries, Inc. 10

Quaker State Oil Refining Corp. 52

Read, Chas. L., & Co., Inc. 43
Reade Manufacturing Co., Inc. 76
Reinhart Chemical Corp. 50
Republic Steel Corp. 49
Riches-Nelson, Inc. 84
Richter, Gedeon, Pharmaceutical Prods., Inc. 56
Rosenthal Bercow Co., Inc. 84
Roure-Du Pont, Inc. 68
Rufert Chemical Co. 77

Santonine Co. of America 59
Schimmel & Co., Inc. 70
Schwarz Laboratories, Inc. 57
Seldner & Enequist, Inc. 56
Sharples Chemicals Inc. 1
Shell Chemical Corp. 18
Shell Oil Co., Inc. 26, 55
Smith, George F. 43
Solvay Sales Div., Allied Chemical & Dye Corp. 33
Standard Brands, Inc. 63
Stauffer Chemical Co. 43
Stein Equipment Co. 81
Sterwin Chemicals, Inc. 69
Strohmeyer & Arpe Co. 78
Strong Cobb, Inc. 15
Sumner Chemical Co., Inc. 61
Sundheimer, Henry, Co. 47
Swanson, C. A., & Sons 45
Synthetic Products Co. 73
Syntomatic Corp 70

Tamms Industries, Inc. 76
Tennessee-Eastman Corp. 37
Texas Gulf Sulphur Co., Inc. 47
Thompson-Hayward Chemical Co. 40
Thurston & Braidich 66
Titanium Pigment Corp. 34
Treemond Company 63

Ultra Penn Refining Co. 52
Ungerer & Company 69
Union Carbide & Carbon Corp., Carbide & Carbon Chemicals Div. 58
United Fuel Gas Co. 53
U. S. Industrial Chemicals, Inc. 14
United States Potash Co., Inc. 46
United Sterling Corp. 45

van Ameringen-Haebler, Inc. 68
Van Gelder Fanto Corp. 66
Victor Chemical Works 11
Vitamerican Oil Corp. 58

Warwick Wax Company, Inc. 36
Washine National Sands, Inc. 42
Watson-Park Company 20
Westvaco Chemical Div. 2
Whitman, William, Co., Inc. 78
Williams, C. K., & Co. 74
Wilson-Martin Div. 77
Woburn Chemical Corp. (N. J.) 6
Woodman Agitator, Inc. 52
Woodward Iron Co. 50
Wyandotte Chemicals Corp. 32

Zink & Triest Co. 66
Zinsser & Co., Inc. 45
Zophar Mills, Inc. 84


### Brill Appointed to Direct Equipment Disposal of Western Sugar Refinery

**Brill Equipment Company, New York, has been placed in charge of the disposal of all machinery and equipment of the plant of the Western Sugar Refinery Company, San Francisco, Calif., which has been sold to a group by the Californian & Hawaiian Refinery Company for dismantling and liquidation purposes. Wrecking operations will get under way immediately. Equipment includes refinery, boiler house and packaging machinery, conveyors, tanks and pumps.**


CAN YOU USE LOWER COST

sulphuric acid?

• In many cases where high purity sulphuric acid is not necessary, tremendous savings can be realized through the use of an appropriate grade of spent acid.

An interesting additional advantage worthy of investigation is this: some products made with spent acid have better physical properties than those made with high-purity acid.

We handle hundreds of tons of spent acids every day. These acids vary widely from high quality to low acidity, and are priced in proportion.

Industries that require large tonnages of low cost acid should give careful thought to locating in the Gulf Coast area where this type of material is available in great quantity. Write to us for information concerning the strengths and grades of spent acid that are available. We shall be pleased to assist you.

CONSOLIDATED CHEMICAL INDUSTRIES INC.

ADDRESS INQUIRIES TO: 640 MELLIE ESPERSON BLDG., HOUSTON 2, TEXAS
OR 630 FIFTH AVENUE, NEW YORK 20, N. Y.

PLASTICIZERS

Dibutyl, Diethyl and Dimethyl Phthalates - Tricresyl Phosphate

CHEMICAL SOLVENTS INCORPORATED

WOrth 2-7763 • MArket 2-3650 60 PARK PLACE, NEWARK 2, N. J.

NATURAL REFINED

CAMPHOR

POWDER TABLETS

ROSENTHAL BERCOW CO., INC.

Drugs Chemicals Oils Waxes

25 EAST 26th STREET, NEW YORK 10, N. Y.

Cable Address "RODRUG" All Codes

AMMONIUM BICARBONATE

SODA ASH • SODIUM CYANIDE

SOLVENTS PIGMENTS

afc

american FIRSTOLINE CORPORATION

420 LEXINGTON AVE., N. Y. 17, N. Y. MU-3-3203 CABLE ADDRESS: FIRSTOLINE

Zophar GILSONITE

Ore Is Bold and Clean.
All Screened at the Mine.

Melting points 275°, 305° and 330° F. Carload Shipments from Provo, Utah. L.C.L. Shipments from Brooklyn Warehouse.

ZOPHAR MILLS, Inc.

Established 1846

112-26th STREET • BROOKLYN, N. Y.

NEVILLE SHINGLE STAIN OILS

THE NEVILLE COMPANY

PITTSBURGH • PA.

ALUMINUM SULPHATE

SODIUM FLUOSILICATE

ZINC CHLORIDE

RN

RICHES-NELSON, INC.

Chemicals and Allied Products

MURRAY HILL 7-7267
RICNELCHEM N.Y.

342 MADISON AVENUE NEW YORK 17, N. Y.

IMPROVED

CALCIUM ACETATE

PURIFIED

Uniform, free-flowing

— o —

CUPRIC CHLORIDE

MILLMASTER

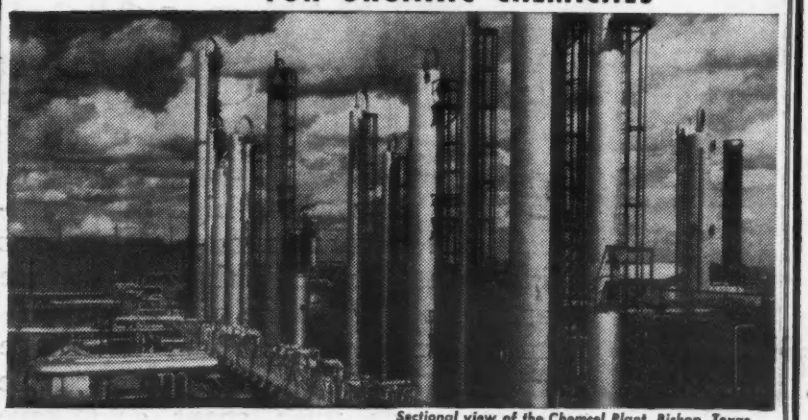
CHEMICAL CORPORATION

420 Lexington Avenue, New York 17, N. Y.

*Cable Address:* "MILLMASTER"

LOOK TO Celanese

FOR ORGANIC CHEMICALS



*Sectional view of the Chemcel Plant, Bishop, Texas.*

FORMALDEHYDE
PARAFORMALDEHYDE
ACETALDEHYDE
PROPIONALDEHYDE
ACETIC ACID
ACETONE
METHANOL

n-PROPYL ALCOHOL
BUTYL ALCOHOLS
PROPYLENE GLYCOL
DIPROPYLENE GLYCOL
TRICRESYL PHOSPHATES
SPECIAL SOLVENTS

Celanese® CHEMICALS

CELANESE CORPORATION OF AMERICA

Chemical Division

180 Madison Avenue, New York 16, N. Y. *Reg. U. S. Pat. Off.